

2

Allen, P.H

2893-5201

1942

-1947



Allen, Paul H.

BOOK 2.

Field notes

1942 - 1947

2893- 2979 Panama  
2980-3016 Colombia  
3017-5201 Panama.




- X 2893 - MAXILLARIA - Sepals & Petals Pink, corolla  
Yellow & with yellowish ribs - Lip yellow - green  
lobe heavily spotted Rose pink. (1)
- X 2894 - HORTENSIA BORTII (1)

El Valle - NORTH - 800 METERS.

12/23/41

2895. ONCIDIUM JACQUELII - epiphyte - S. & P.  
Rich chestnut brown - with very narrow  
yellow edge (1/2 mm.) margins undulant,  
& crisped -  
Shading yellow tessellations on sep.  
Frontal lobe of lip bright yellow -  
with <sup>3</sup> distinct brown spots near base  
of calyx - anther cap, yellow.  
Flowers 4 - 4.5 cm in diameter. (1)

Vicinity of Palo Seco - C. 2 - O.M. 1-11-42

- X 2896 - BAUHINIA - Giant liana - common in trees  
along rocky benches - mature canes   
woody - curiously undulant - armed with spines.  
Flowers greenish white - fragrant. (6)



Region north of El Valle de Atreón - About 1000 m.  
(Finca Muñoz) 1/13/42

- 2897- CAUENOSTICHIA Alleni - Epiphytic shrubs -  $\frac{1}{2}$  m. or less - Bracts sharp pink - Flowers yellow. (2)
- X 2898- Epiphytic Bromeliad - Ruff's tan - Bracts tan - Flowers white - Foliage green except for basal  $\frac{1}{4}$  which is brown. (3)
- X 2899- Epiphytic Fern - Myrsineophyllous species - Associated with minute black ants & large brown scale insects - (6)
- X 2900 - Thecophyllum - Giant tank epiphytes - Inflorescences erect - covered with a silvery grey tomentum - Leaves green - Flowers rose pink - Buds lavender. (2)
- X 2901 - Epidendrum - Epiphytic - Flowers green. (2) (C)
- X 2902 - Orchid - Epiphytic - Fl. yellow. (3) (C)
- X 2903 - Lockhartia - Epiphytic plants much like L. pallida in superficial appearance - exception that the leaves rarely exceed 8" in length - Flowers rich yellow - About  $\frac{1}{4}$ " in diameter. (1)
- X 2904 - Orchid - Epiphytic. (2) (C)
- X 2905 - Epiphytic Bromeliad - Axillary bracts & panicle red - imbricate bracts of inflorescence silvery grey - Flowers lavender - Foliage green. (2) (C)



- X2906 - *BENONIA* - Flowers white. STAMENS yellow. (2)  
yellow - common ON ROCKS & decaying STUMPS.
- 2907 - *MELASTOMACE* - Flowers lavender. common (6)  
ON Boulders in STREAM BEDS -
- X2908 - *ACANTHACE* - SHRUB - 2 - 2½ m. Flowers  
scarlet. common. (3)
- 2909 - *Heliconia* - INFLORES Cymes terminal - erect.  
Plants about 3m tall. BRACTS greenish, or sometimes  
tinged with purple. Flowers BRIGHT PINK.  
UNDER SURFACES OF LEAVES OFTEN TINGED PURPLE (4)
- X2910 - TREES - 20 - 25 m - Flowers ROSE PINK -  
Flowers LITERALLY TRAILS everywhere. common. (7)

SOUTH Rim OF EL VALLE - ABOUT 650 m. 1/13/42

- X2911 - *CASSIA*? - Small TREES 3 - 6 m along roadside  
ON DESCENT INTO VALLE PROPER - Flowers  
yellow - STEMS very hairy - HAIRS  
long & silvery. (12)



X 2912 - TREES - 6 m. FRUITS PINK - CONSPICUOUS.

HELIOCARPUS - (ALSO IN FLOOR T ON NORTH SIDE) (3)

2913 - PEPEROMIA - GROWING ON EXPOSED ROCKS WITH  
FURCROIA ETC - STEMS PINK - LEAVES VERY THICK (3)

X 2914 - ONCIDIUM CHIROPHORUM - GROWING IN "NANCE"  
TREES - FLOWERS YELLOW (ALSO ON NORTH SIDE) (2)

X 2915 - BULBOPHYLLUM JACKY RALPHS - COMMON - (2)

X 2916 - FERN - TERRESTRIAL - FRONDS PRESSED VERTICALLY  
AGAINST TRAILSIDE BANKS - COMMON - (5)

X 2917 - CASSIA - SCANDENT SHRUB - 2' - 3' m.  
FLOWERS BOTTOM YELLOW. (6)



2923

2.3- PSEUDOBULBS SUB-ORBITAL - 3.5 - 4.00 CM.  
LONG AND 2.5 - 3.00 CM WIDE - MUCH  
COMPRESSED - WRINKLED - MONOPHYLLous,  
HEAVILY SPOTTED WITH BLACK - BASE OF  
PSEUDOBULBS SHEATHED IN 3 FOLIOLOUS  
BRACEDS - FROM THE AXIL OF ONE OF WHICH  
THE FLOWERING SCOPE APPEARS -  
FLOWERS VERY VARIABLE IN SIZE - MEASURING  
FROM 2.5 X 2.00 CM. IN THE LARGEST VARIETY  
SEEN (PRESERVED IN ALCOHOL) TO 1.75 X 1.00 IN  
THE SMALLEST FLOWERING VARIETY. COLORS NOT  
PREVIOUSLY NOTED.



Panama

REGION NORTH OF EL VALLE - (FINCA MUÑOZ)

800 - 1000 M - FEBRUARY 2 - 1942

- 2918 - MAXILLARIA - Epiphytic - DWARF PLANTS - S. & P. CREAM -  
Lip CREAM - FRONTAL LOBE RED-BROWN - ①
- X 2919 - COLUMNEA - Epiphytic - TIPS & MARGINS OF  
LEAVES BLOOD RED - STEMS RED - FLOWERS  
RED - ②
- X 2920 - MAXILLARIA - PSEUDOBULBS CLUSTERED - MATURE LEAVES  
6.5 - 17 CM WIDE - 25 CM LONG - SEALS & PETALS  
YELLOW - Lip yellow - WITH FRONTAL LOBE HAVING  
A WHITE MARGIN & LATERAL LOBES RED-BROWN - ①
- 2921 - MAXILLARIA - DWARF TUFTED PLANTS - SEALS &  
petal pure white - LABELLUM ROSE PINK - WITH  
pale yellow FRONTAL LOBE - ①
- X 2922 - BRASSIA ? - PLANTS RESEMBLING HORTLEYA -  
SEALS & PETALS RICH CHESTNUT BROWN - LABELLUM  
pale yellow - ①
- X 2923 - ONCIDIUM - LEAVES GREEN - PSEUDOBULBS ROUNDED -  
BLACK - FLOWER SCAPES MUCH GRACER - NORMALLY  
ABOUT 14" LONG - SEALS - PETALS & Lip yellow  
yellow - WITH CHESTNUT BROWN BLOTCHES AT  
BASE - BLOTCH AT BASE OF LABELLUM IN FORM  
OF A ROUGH U <sup>yellow</sup> INCLUDING BARKEN CABLES - ①  
← (CONTINUED opposite page -)



CERIBA Allenii

- X 2924 - Epiphytic - STRANGLER TREE - 10-12 M - OUTER SURFACES OF PETALS OLD ROSE - INNER SURFACES & OUTER MARGINS CREAMY WHITE - BARK OF TRUNKS & BRANCHES SPINY - (3)
- 2925 - BEGONIA - Epiphytic - Fls. VERY pale pink - (4)
- X 2926 - ORCHID - epiphytic - Fls. pale green - (1)
- X 2927 - ACANTHACE - SHRUB - 1' LM - Fls. BRILYANT yellow (2)
- 2928 - MONOPHYLL - COROLLA LOBES BLUE - OUTER COROLLA WHITE - INNER COROLLA pale yellow - UNDER SURFACES OF LEAVES purple - (1)
- 2929 - BROMELIAD - epiphytic - SCAPE BRACTS SCARLET - Flowers white - Foliage green - TINTED LAVENDER - (1)

CYCNOPTERIS

RIO TABASARA - PROV. OF CHIRIQUI - 50 M - ELEVATION -

(PLANT FLOWERING IN BARBOSA - COLLECTED AT ABOVE LOCALITY 1/3/42)

- X 2930 - Sepals & petals GREENISH yellow - Lip pure white - WITH DARK GREEN BASAL CAMES - column GREENISH yellow - WITH BUTTER yellow ANTHUR CAP. Flowers DELICATE, VERY TRANSPARENT IN THE MORNING - (1)



Review north of El Valle de Anon - Prov. of  
Cocha. elevation ABOUT 1000m - JUNE, 1941

X2931 - STAN HOPEA - Flowered in the collection of MR.  
A. S. B. Fairchild, SAN FRANCISCO DE LA CAJON, and  
collected by him at the above locality. Flowers  
CREAMY WHITE, without characteristic "eyes"  
or spots. LARGER than either S. NARDII or  
S. Bucephalus - ①

X2932 - MAXILLARIA - (KORBER PHOTOGRAPH) Flowers sessile  
in leaf axils - Sepals & petals yellow. Lip  
Reddish Brown. Column Reddish Brown - FRAGMENT ①  
Collected by MR. A. S. B. Fairchild & Flowered in  
his collection Feb. 12. 1942 -

vicinity of PRODA - Rep. de Panama -  
25m - 2-17-42

X2933 - ONCIDIUM - STIPITATUM - Sepals & petals  
yellow - Richly spotted & BARRED CHESTNUT  
BROWN - FRONTAL - MUCH EXPANDED LOBE  
of labellum. BRIST yellow - LATERAL  
standard lobes of same color - CHESTNUT  
BROWN crested <sup>A BASE OF LIP</sup> called Below Column. ③  
(Flowers in pickle showing variation in size)



REGION SOUTH OF EL VALLE DE FAYON  
600 m - 2-20-42

2934 - *SOBRALIA WILLIAMSII* - STERILE CANE - ①

REGION NORTH OF EL VALLE - ABOUT 1000 m  
2-20-42 (FINCA MUÑOZ)

X 2935 - *MAXILLARIA* - EPiphytic - Flowers BRIGHT yellow ①

2936 - EPiphytic - S. & P. LAVENDER, Lip GREENISH LAVENDER ②

X 2937 - *ONCIDIUM* - S. & P. BROWN - Tipped yellow.

Lip BROWN, WITH FRONTAL & LATERAL LOBES yellow.

CREST AT BASE OF Lip woolly - WHITE - AREOLAS  
yellow. ①

X 2938 - SEE # 2923 FOR DESCRIPTION - ①

X 2939 - *ONCIDIUM CHIEROPHORUM* - Common ②

2940 - *ENTARPE ALLENII* - Single - OR multiple

STANDARD SLENDER palms - THE TRUNKS - DRIFT -

OBSOLETELY RINGED - AVERAGING 5-6" in DIAMETER.

FRONDS PINNATE, WITH A LONG - WELL DEVELOPED

CROWN-SHAFT. BASE OF TRUNK SUPPORTED

BY A MOUND OF BUTTRESS ROOTS - LAGUER

RED - ABOUT A FOOT IN HEIGHT. GENERALLY

DISTRIBUTED THROUGHOUT THE VALLE AREA

ABOVE 700 METERS - ②



2942 - (CONTINUED)

LESS CONDENSE - OR DIVIDED FROM WIND OR  
DAMAGE - INFLORESCENCES PENDANT - INFRA -  
FOLIACIOUS - 2-4 in NUMBER - (1)

REGION NORTH OF EL VALLE - 800 M -  
4-4-42

X2943 - SOROKA - FLOWERS STRAW YELLOW -  
SPOTTED RED-BROWN - SLIGHTLY FRAGANT. (1)

REGION NORTH OF EL VALLE - ABOUT 800 M  
5-10-42

2944 - COLUMBA - FLOWERS RED - STEMS & TIPS OF LEAVES  
STAINED BLOOD RED - EPIPHYTIC - (2)

X2945 - Bromeliad - epiphytic - BRACTS OF SCAPE SCARLET  
FLOWERS YELLOW - (2)

HILLS SOUTH OF EL VALLE - ABOUT 700 M -  
5-10-42

X2946 - ERICACEAE - TREE - 20 M - FLESHY CALYXS  
BRIGHT RED - CORolla TUBES BRIGHT WAXY  
YELLOW - VERY HANDSOME & LONG LASTING (5 Hb) (13)



HILLS NORTH OF EL VALLE - ABOUT 800M -  
5-10-42.

- 2947 - SLENDER PALM - *WEDDINGIA*? - 2M - GROWING  
IN HEAVY SHADE - (3)
- 2948 - SMALL TREE - 3M - FRUITS CONSPICUOUSLY ORANGE  
SCARLET IN DENSIFICATION - (1)
- 2949 - *CYAMAEPODIA*? - SLENDER PALM - 3M - (1)
- 2950 - AEROID - EPYPHYTIC - SPATHE BROAD-  
FLESHY - DEEP PINK - CONSPICUOUS - (1)
- 2951 - *BACTRIS* - LEAVES COVERED WITH SHORT  
SOFT GOLDEN HAIRS - SPATHE WOOLLY  
RATHER THAN SPINY - 5-8 CANES -  
2 1/2 - 3M TALL - IN DEEP SHADE - (1)
- X 2952 - *STALIS*? - EPYPHYTIC - FLOWERS PURPLISH  
BLACK - (2)
- 2953 - *APOCYNACEAE* - SHRUB OR SMALL TREE - 3M -  
FLOWERS YELLOW (3)
- 2954 - AEROID - EPYPHYTIC - (2)

HILLS SOUTH OF EL VALLE - ABOUT 700M -  
5-10-42

- 2955 - *ANDIRA* - TREES - 15-20M - SLENDER -  
COMMON ALONG ROADSIDE - FLOWERS  
LAVENDER -



2956 - MORNOSES - Flowers ~~greenish~~ brown - (Kewer  
Photo) From FAIRCHILD collection <sup>1 flower</sup> in fruit

(1)

Region NORTH of EL VALLE 800 M  
7/4/42

2957 - ACANTHACE - SHrub OR WOODY HERB. 1 1/2 M  
Flowers BRIGHT yellow.

(2)

Vicinity of YACAMONTE POINT, PANAMA PROVINCE,  
C.M. - 9-7-42

2958 - ARAUC - COMMON ON ROCKY HILLSIDES - Flower  
SPIKES 3 M TALL - OFTEN COMPOSED OF DOZENS  
OF SMALL PLANTS. Flowers ~~greenish~~ TAN - WITH  
DIRTY yellow ANthers.

(1)

2959 - Heliconia - usually known as "CURTISIANA"  
Plants very tall - 2 1/2 - 3 1/2 M. Foliage BANANA-  
LIKE - INFLORESCENCES pendant. BRISTLES  
SET AT ANGLE TO THE UNDULANT RACHIS. BRISTLES  
BRIGHT RED. NARROW VIVID ORANGE.  
Flowers yellow - followed by blue fruit.



2960 - *Heliconia latifolia* - Plants averaging  
2 m tall - inflorescences erect - Bracts  
set at angles to one another on the  
undulant rachis - Bracts slender -  
boat shaped - variegous - red - with  
a yellowish area near the point of  
attachment to the rachis. Leaves  
greenish yellow with green margins  
to the petals. (1)

2961 - *Heliconia* - "straminea" averaging  
2 m - but as much as 3 & as little  
as 1 1/4 under some circumstances.  
Inflorescences erect, the bracts slender -  
closely imbricating, bracts <sup>straw</sup> yellow, with  
a greenish tinge in the middle area.  
Flowers straw yellow, tipped dark  
green - (5)

Vicinity of Beloco, near Rock Crusher.  
20 m - 9-7-42

2962 - *Lilicopa* - Herb common to Rocky exposed  
hill top - Clumps with strap like leaves  
3/4 m tall - laxly spreading. Inflorescences  
weak prominent. Fls. white, small - with  
yellow prominent stamens. (5)



REGION NORTH OF EL VALLE DE ANTON - 9/10/42  
ABOUT 700-800 M. COLLECTED BY MR. EDWARD  
OLSON

2963- BRASSIA Allenii - S. & P. TAN - Lip pale yellow  
Flowers DELICATE FOLLY FRAGRANT. ①

2964- DICHAEA sp. PLANTS ABOUT 10" TALL - SEPAL  
& PETAL pale GREEN - Lip ROYAL purple - ①

2965- Phaiosanthus - epiphytic. ①

SAME REGION AS ABOVE - Flowered in  
Balcon ABOUT 7/10/42 600 M. Floor.

2966 - Epidendrum - Common on trees near Matel's  
place - TUFTED - plants with small thick  
leaves - pseudobulbs about 1" high, plants  
looking like DWARF Cattleyas. Flowers  
produced FROM BASE OF PSEUDOBULBS  
AS IN E. STANFORDIANUM. Flowers <sup>fleshy</sup> pale  
yellowish GREEN. ①

LA VENTA, Coche' Province, Sea Level. 9/10/42  
2967 - Common weedy herb. Fls. yellow, <sup>with dark brown</sup> centers.  
conspicuous. ④  
(also south of EL VALLE)



VICINITY OF CASA LARDA - ABOUT 65 M. 10/18/42

2968 - BAUHINIA, GIANT WOODY LIANA, CHIMBING IN  
TOPS OF TALLEST TREES - WOODY STEMS ABOUT  
THE DIAMETER OF A MAN'S ARM, BUT NOT FLATTENED,  
PERFORATED NOR UNDULANT AS ARE SOME  
SPECIES. WOODY TENDRILS PRESENT. FLOWERS  
PURE WHITE. (4)

2969 - SCLHOTESIA, GROWING IN WET SAVANNA - FLOWERS  
BRIGHT PINK, VERY CONSPICUOUS -  $\frac{3}{4}$  M. TALL. (3)

2970 - SCLHOTESIA, GROWING WITH THE FORMER SPECIES -  
FLOWERS MUCH SMALLER - DULC, DIRTY PINK. (1)

2971 - POLYNATA - COMMON ON DRY SAVANNA - FLs.  
PALE LAVENDER - (4)

2972 - POLYNATA - DWARF SPECIES, HAVING BROAD LEAVES.  
FLs. BRIGHT PINK. (3)



HILLS NORTH OF EL VALLE - 3-14-43 - ABOUT  
1000 M -

2973- STERCUARIA, "PANAMA" TREES 90 FT.

TALL - UNBUTTERED, MATURING A Slightly  
CARPY - LEAVES STRONGLY VEINED, ENTIRE.

2974- EUSTACIA - TALL - SLENDER - SPARSELY BRANCHED TREES -

15 M - CONSPICUOUS FOR THE LONG - LEAVES CLUSTERED  
NEAR THE ENDS OF THE BRANCHES - INFLORESCENCES

ERECT, TERMINAL, PANICULATE, OF GOLDEN YELLOW  
FRAGRANT FLOWERS - (LOMA DEL TIPORE) <sup>"MEMBRILLO"</sup> ①

2975- LUCUMA SP. TREE - 15 M - "MAME OIL" <sup>"MEMBRILLO"</sup>

FRUITS SPHERICAL - LIGHT ORANGE - INSIPID &  
REPORTED AS NOT EATEN -

2976- CEIBA ALLENII, STRANGLER TREE, EPYPTIC

HABIT OF TOPOBEA REPENS LEAF SPECIMENS - ②

2977- CECOLOBA - TREE - 25-30 M - "UVERO" INFLORESCENCES

PENDANT - BUDS TAWNY RED - FLOWERS WHITE  
WITHIN, FRAGRANT - NEW LEAVES <sup>CONSPICUOUS</sup> -  
RED - BROWN -

2978- VIOLACEAE, CREEPING, STRANGLER - 10 M

HAVING THE HABIT OF POLYMERUS ACRE -  
FLS. CONSPICUOUSLY MOLEST LIKE - SUMMER  
BLUE - (over)



2979

*Calocarpum viside* - tree - 25<sup>m</sup>. Fruits  
green - seed exceptionally large - with a  
conspicuously large hydium.



Paul H. Allen

Missouri Botanical Garden

Collections from

Columbia, S.A.

July - 1943 TO NOVEMBER - 1945

NO. 2980 TO 3407-A

PLANTS OF PANAMA.

MARCH - 1946 TO OCTOBER - 1947

NO. 3408 TO 5201.



Species X in left hand margin have been determined.

Quebrada Guico: Vicinity of Bogota - Colombia  
Elevation (about 11,000 ft. July 11, 1943 with F.M. Rosberg)

- 2980 ✓ Bromeliad - epiphytic on boulders. Paramo - Bracts <sup>let</sup> scarlet  
flowers white. (1)
- 2981 ✓ Loxanthae - small tree - 3 meters - not parasitic - flowers <sup>white</sup> (3)
- X 2982 ✓ Espeletia corymbosa - plants not trunked - dwarf -  
flowers yellow (2)
- 2983 ✓ Tree - 10 meters - flowers white (1)
- X 2984 ✓ Gentian - dwarf herb - flowers pale lavender - striped  
deeper lavender (1)
- X 2985 ✓ Melastomac - dwarf herb - flowers yellow - scapes from  
a bright green basal rosette - like a dwarf primula (2)
- X 2986 ✓ Lycopodium - steep banks (2)
- X 2987 ✓ Psichomanes - pendant - brownish woolly fronds -  
boulders on Paramo (2)
- ✓ 2988 ✓ Melastomac - shrub - 2 meters - flowers deep rose (3)
- X 2989 ✓ Ericaceae - dwarf shrub - 25 cm. - flowers rose red -  
Paramo (2)
- X 2990 ✓ Geranium - flowers deep lavender - Paramo (1)
- 2991 ✓ Viburnum - tree - 10 m. - flowers white (2)
- 2992 ✓ Legume - herb - keels black - standards white - fragrant (1)
- 2993 ✓ Eleanthus - clumps on boulders in Paramo -  
flowers rose purple. (1)
- X 2994 ✓ Ericaceae - shrub - 2 m. - flowers rose red (4)
- X 2995 ✓ Ericaceae - same as above but a tree - 15 m. - flowers larger. (2)
- 2996 ✓ Orchid - flowers pale lavender. (3)
- X 2997 ✓ Composite - flowers white. (1)
- X 2998 ✓ Composite - spiny shrub - 3 m. - flowers pale lavender (2)
- 2999 ✓ Espeletia - flowers yellow - plants with trunks 75 cm.  
tall - leaves silvery - Paramo (1)
- 3000 ✓ Melastomac - creeping matted herb - flowers white -  
leaves succulent - Paramo (2)
- 3001 ✓ Eriocaulon - dwarf herb - flowers white - Paramo
- X 3002 ✓ Composite - flowers yellow - Paramo (1)
- 3003 ✓ Plerisethallis - flowers pale yellow (1)



- 3004 ✓ *Lobelia* - dwarf herb - flowers deep violet - Paramo (2)  
 X 3005 ✓ *Lobelia* - herb - flowers violet - Paramo (3)  
 X 3006 ✓ *Hypericum* - flowers yellow Paramo (1)  
 X 3007 ✓ *Eurhizanthe* - flowers pale greenish white Paramo (1)  
 3008 ✓ *Spiranthes*? - flowers greenish white Paramo (2)  
 3009 ✓ *Melastomaceae* - woody herb - flowers black purple - Paramo (2)  
 X 3010 ✓ Herb - leaves red-brown - flowers white - Paramo (2)  
 3011 ✓ *Orchid* - terrestrial - flowers bright pink Paramo (2)  
 X 3012 ✓ *Urticaceae* - flowers pale yellow - Paramo (3)  
 X 3013 ✓ *Ericaceae* - shrub - 1 1/2 m - flowers pale pink - Paramo (2)  
 3014 ✓ *Epidendrum* - flowers pale greenish tan - Paramo (2)  
 3015 ✓ *Orchid* - flowers yellow - Paramo (1)  
 3016 ✓ *Ladium* - Liana - flowers yellow - fragrant - Paramo (1)

Rio Macu (Macu - Parana) 8/11/43

- 3017 ✓ Shrub or small tree - 6 m. - flowers dull red - old clearings on sand. (5)  
 3018 ✓ Tree - 10 to 12 m. - flowers dirty white (2)  
 3019 ✓ Tree - 12 m. - fruits brown (2)  
 3020 Tree - 10 m. (1)  
 3021 Distichous <sup>Bromeliad?</sup> *Bromelias* - very common - scape bracts orange scarlet  
 3022 ✓ ~~OTTALPIHIACEAE~~ <sup>IN OLD CLEARING AT HEAD OF TRAIL TO VAUGHN</sup> - vine - flowers yellow (3)  
 X 3023 ✓ Perseetrial orchid - branched - 2 m. - flowers lavender - lip fringed with crested hairs (2)  
 3024 ✓ Herb - flowers white - common (1)  
 3025 Permite nest epiphyte - flowers white (1)  
 3026 Sedge (1)  
 3027 *Picramnia* (1)  
 3028 ✓ *Bromeliad* - terrestrial - bracts bright red (2)  
 3029 *Scitamineae* - bracts red (1)  
 3030 *Orchid* - epiphytic - flowers tan (1)  
 3031 *Epidendrum* - terrestrial - flowers green (1)  
 3032 ✓ *Lycopodium* - common one - tas - tab - wa (2)  
 3033 ✓ *Clusia* - tree - 15 m. - flowers white - stamens yellow - fragrant. (4)



- X 3034 ✓ *Prichomanes* - ~~old~~ clearings ②  
 3035 Fern ally - " " ①  
 3036 Shrub - 1 to 3 m. - flowers greenish white ②  
 3037 ✓ Shrub - 1½ m. - bracts red - flowers green ②  
 3038 ✓ Shrub - 2 m. - hairs on inflorescence scarlet ②  
 3039 Common herb - flowers yellow ①  
 X 3040 ✓ *Prichomanes* ②  
 X 3041 ✓ " ③  
 3042 *Melastomac* - herb ①  
 X 3043 ✓ Scandent shrub - 3 m. - flowers deep blue ②  
 X 3044 ✓ Herb - very common ⑥  
 X 3045 ✓ Fern ally. - ~~Forams~~ clumps in "CAATINNA" woods - ④  
 3046 Gesneriac - shrub - 1½ m. - flowers red ①  
 3047 *Sobralia* - flowers white - yellow lip - fragrant ②  
 3048 Blue orchid - see diary ④  
 - 3049 ✓ *Plak sogudi* - see diary (~~later~~) ④  
 - 3050 ✓ *Bujawakpuf* - see diary

*Baccharis* - Rio Poca - 9/6/43

- 3051 Tree - 6 m. - flowers yellow - cauliflorous ②  
 3052 ✓ Shrub - 2 m. - flowers greenish white ①  
 3053 ✓ Tree - 10 m. ②  
 - 3054 ✓ *Byrsonima* - tree - 6 m. - "Min - ~~gaj~~ tocano ②  
 3055 ✓ Shrub - flowers white - 2 m.  
 3056 Bromeliad - epiphytic - basal scape bracts  
 scarlet - flowers yellow ①  
 3057 ✓ Woody liana - 10 m. - Ericaceae - calyx scarlet ①  
 X 3058 ✓ Small tree - 3 m. in clear spot in forest ③  
 3059 Bromeliad - epiphytic - scape bracts pink ①

*Pereskia* - Rio Papuri - 8/15/43

- 3060 ✓ Herb - flowers yellow ③  
 - X 3061 ✓ *Bujawakpuf* or *arara siringa* - tree -  
 35 m. - see diary ⑥  
 - 3062 ✓ *Mahawakpuf* - see diary ④  
 - 3063 ✓ *Wakpuf* - see diary ⑤



- 3064 ✓ Sab-a-di - see diary - sterile (3)
  - 3065 ✓ OKU-KI-RANA - tree - 25m. - sterile (3)
  - 3066 ✓ Li-jung-wak-sagui - tree - 20m. - sterile (3)
  - 3067 ✓ Vine - apocynac - flowers deep yellow (4)
  - X 3067-A - HAB - Common to SAND CLEARINGS - Fls. white
- Piracuara - 8/18/43
- 3068 ✓ "Mac-so-ne-ne" see diary (4)

Rio Cu-cu-yu - 8/23/43

- X 3069 ✓ Shrub - or woody liana - 3m. - flowers dull red (2)
- 3070 ✓ Apocynac - vine - flowers white (2)
- 3071 ✓ Tree - 12m. - flowers pale yellow (2)
- 3072 Shrub - 4m. - flowers pale yellow (2)
- 3073 Shrub - 1½m. - flowers pink (2)
- 3074 Vine - apocynac - flowers pink (1)
- 3075 Tree - 12m. - flowers pale yellow (2)
- 3076 Herb - flowers white - gesneriac

NOT COLLECTED, BUT COMMON, near some species of MARANTHA, HAVING DENSE GLOBOSE HEADS. VERY FREQUENT IN SHALLOW WATER. OR THALASSIA - SEE BOT. MUS. LINT.

Macu - Parana - 8/11/43

- X 3077 ✓ Liana - flowers dull orange (3)
- 3078 ✓ Melastomac - liana - flowers white (2)
- 3079 Herb - Growing on boulders with Podostemonas (3)
- 3080 Oncidium liridifolium (1)
- 3081 Herb - 1¼m. - flowers cream - basal inflorescence (1)
- 3082 ✓ Small tree - 10m. - flowers lavender (2)
- X 3083 ✓ Eriocacaron? (2)
- X 3084 ✓ Shrub or small tree - 3m. - flowers yellow (3)
- 3085 Epidendrum - terrestrial - flowers red - 10m. (1)
- 3086 Liana - flowers yellow

Mello Franco - Brazil - 8/31/43

- 3087 ✓ Shrub - 2m. - flowers red (2)
- X 3088 ✓ Vine - flowers red (2)
- 3089 ✓ Tree - 20m. - flowers white (2)
- 3090 - Tree - 6m. - flowers white - apocynac (2)
- X 3091 ✓ Tree - 12m. - flowers white (2)



- 3092 Herb to 1m. - flowers white (1)  
 X 3093 Tree - 12m. - flowers lavender (2)  
 3094 Woody vine - flowers white (1)  
 3095 Tree - 18m. - flowers white (2)

Bacaricuara - 9/6/43

- 3096 Small tree - 4m. - apocynac - flowers pale cream, tips fused.  
 3097 Saprophyte - Primulidaceae (1)  
 3098 Apocynac - vine - flowers deep yellow - fragrant (3)  
 3099 Brownea - scandent shrub - 3m. (1)  
 X 3100 Shrub - 1½m. - flowers pale lavender (2)  
 3101 Asclepid - flowers pink & white (1)  
 3102 Orchid - terrestrial (1)

Manfort - 8/29/43

- 3103 Epiphytic - strangler shrub "Lij-ex-we" toc. (2)  
 3104 Sapotaceae - cañ mito - "ca-a-ne" toc. - slender tree - 12m. (5) (3)  
 X 3105 Pheobroma - tree - 6m. - sepals fleshy - petals maroon. <sup>possibly THEOBROMA GRANDIFLORUM - CHICAGO NAT. HIST. MUSE. EXHIB.</sup> (5)  
 3106 Annona sp. - fruit with orange pulp <sup>resembling</sup> A. muricata in flower - "cat-ariana - pica" toc. (1)  
 3107 Spring tuberculate annona - tree - 10m. (1)  
 3108 "Guai-tu-to" (geral) "Pi-ca" toc.  
 X 3108 Tree - 12m. - flowers pale lavender (3)  
 3109 Ma-ja-wak-puj - see diary - Manfort var. (4)  
 3110 Strangler tree - 15m. - flowers white with maroon centers (2)  
 X 3111 Blow-gun cotton - tree - 15m. (2)  
 3112 Tree - 15m. - Barbaco <sup>Fls. like Rose pink. Fruits Spiny.</sup> (3)  
 3112-A - Tree - 20m. - fls. white -

Bacaricuara - Caño Uba - 9/6/43

- 3113 Lepidocaryum - see diary  
 3114 Coatrecusda - see diary



# Headwaters of Cudungari 12/6/43

3115 Orchid - terrestrial - flowers yellow

## Yapoboda 12/10/43

- 3116 ☒ Bromeliaceae - pitcairnia? - fruits red - terrestrial (2)
- 3117 ☒ Shrub or small tree - 5m. - fruits redish - clusia (2)
- 3118 Aroid - epiphytic - clumps on stones (1)
- 3119 ☒ Burmanniaceae - herb - flowers violet tipped yellow (2)
- 3120 Labellaceae? - flowers blue (2)
- X 3121 ☒ Gentianaceae - flowers pale green (2)
- 3122 Utricularia - flowers pale yellow (2)
- 3123 Juncaceae - Luzula? - flowers yellow (1)
- 3124 ☒ Cassia - low shrub - 3/4 m. - flowers yellow (2)
- X 3125 ☒ Dracaceae - dracena - leaves blood red (2)
- 3126 Dictostegia (Burmanniaceae) - flowers cream white (2)
- 3127 Utricularia - flowers yellow (2)
- 3128 Utricularia? - flowers pale lavender (1)
- 3129 Polygalaceae - flowers lavender (1)
- 3130 Eugenia - small tree - 2m. - flowers white (2)
- 3131 Herb - flowers yellow (2)
- 3132 Melastomac - small shrub 4m. flowers purple (2)
- 3133 Utricularia - flowers blue - terrestrial (2)
- 3134 Utricularia - flowers yellow (2)
- 3135 Burmanniaceae - Dicastigia? - flowers blue (2)
- 3136 Lycopodium - (2)
- 3137 Herb - flowers deep blue (1)
- 3138 Sedum? - flowers greenish yellow (1)
- 3139 ☒ Shrub - 2m. (2)
- X 3140 ☒ Bysonima - tree - 3m. - flowers yellow (2)
- X 3141 ☒ Allibertia? - Rubiaceae - shrub - 2m. - flowers white (3)
- 3142 ☒ Asclepiadaceae - herb - flowers green (2)
- 3143 ☒ Melastomac - flowers deep purple - small tree - 2m. (2)
- 3144 ☒ Lorantheae - 3m. - on Bysonima (2)
- X 3145 ☒ Small tree - flowers red - 2m. (2)
- 3146 ☒ Lecythidaceae - tree - 30m. - flowers pink (3)
- 3147 ☒ Herb (2)
- 3148 ☒ Herb (2)



3149 ✓ Eriocaulaceae

X 3150 ✓ Herb

Rio Cubirer - 12/8/43

3151 ✓ Ravenala Guianensis - see diary

Yapohoda - 12/10/43

3152 ✓ Hevea - shrub or small tree - 3 m. - flowers yellowish white

3153 Gesneriac - flowers lavender - sandstone crevices

3154 ✓ Apocynac - flowers white to pink

3155 Melastomac - low flattened shrub - 1/2 m. - flowers orange

3156 ✓ Sobralia decora - see diary

Cabeceras del Cudungari - 11/26/43

3157 ✓ Woody liana - flowers white

X 3158 ✓ Meliaceae? - Tree - 25 m. - flowers white

X 3159 ✓ Cassia - Tree to 12 m. - flowers yellow

3160 ✓ Tree - 20 m. - flowers orange

3161 ✓ Legume - tree - 25 m. - flowers rose pink - calyx reddish brown

Yupurari Falls - 11/10/43

3162 ✓ Apocynac - vine - flowers deep yellow

3163 Apocynac - shrub - 1 1/2 m. - flowers pink

3164 ✓ Composite - shrub - 2 1/4 m. - flowers yellow - fragrant

3165 ✓ Grass - elevated trunks

3166 ✓ Aeclepiad - vine - flowers pink & white

X 3167 ✓ Small tree - 3 m. - flowers deep dull purple

X 3168 ✓ Herb - flowers yellow

3169 ✓ Eriocaulon - flowers white

X 3170 ✓ Bignoniaceae - small tree - 3 m. - flowers white

3171 Small tree - 6 m. - flowers rose pink - melastomac

3172 Melastomac - herb - stems red - flowers deep lavender

3173 ✓ Tree - 10 m. - flowers pink

Cabeceras del Cudungari - 11/26/43

3174 ✓ Scandent shrub - 4 m. - flowers white - fragrant

3175 ✓ Tree - 15 m. - Lauraceae - flowers greenish yellow

3176 ✓ Tree - 25 m. - Andisa? - flowers lilac



- 3177 Tree - 12 M. - flowers pink (1)  
 X 3178 Cultivated shrub - barbasco - flowers white (2)  
 3179 Woody liana - flowers pink (2)  
 3180 Cyclanthus - epiphytic - flowers pink (1)  
 3181 Bignoniaceae - riverside tree - 8 M. - flowers yellow (1)  
 X 3182 Genipa? - tree to 15 M. - flowers white ageing tan (2)  
 X 3183 Tree - 25 to 30 M. - stamens pink - "Cun-cun" (cubes)  
 fruits used for barbasco

Yapoboda - 12/10/43

- 3184 Eriocaulon (2)  
 3185 Melastomaceae - shrub - 1 1/2 M. - fruits pink (2)  
 X 3186 Melastomaceae - woody herb - 1 M. - flowers pink (2)  
 X 3187 Shrub - 1 1/2 M. - flowers white - fruits red (2)  
 3188 Small tree - 6 M. - probably same as # (2)  
 3189 Melastomaceae - spreading shrub - 1 M. - fruits  
 pink - probably same as # 3155 (2)  
 X 3190 Bombac - flowers cream - shrub 2 M. (2)  
 X 3191 Lycopodium - creeping plant in open savanna (2)  
 3192 Eriocaulon? - flowers white (2)  
 3193 Shrub - 3/4 M. Melastomaceae - flowers pink (2)  
 X 3194 Shrub - 1 1/2 M. - witches broom - flowers yellow (2)  
 3195 Juncaceae - flowers yellow (2)  
 3196 Dilleniaceae - shrub - 1 M. - fruits red (2)  
 3197 Byrsonima - flowers yellow - woody herb - 1/2 M. (1)  
 3198 Sub-shrub - fruits orange - 1/2 M. (2)  
 3199 Eriocaulaceae (2)  
 3200 Persea - shrub - 2 M. - fruits yellow (2)  
 X 3201 Juncaceae - flowers yellow (2)  
 X 3202 Juncaceae - flowers yellow (2)  
 3203 Orchid - terrestrial - flowers yellow (2)  
 3204 Cataglyphis? - flowers green (1)  
 X 3205 Very handsome - blue flowered herb. (4)  
 3206 Herb - flowers green (2)  
 3207 Juncaceae - attacked by orange fungus (2)  
 3208 Eriocaulon - 1 to 1 1/2 M. (2)



X 3209 - A - Herb - fls. yellow

Musupari - 11/10/43

3209 ✓ Apocynac - vine - flowers yellow (2)

X 3210 ✓ Bignoniaceae - liana - flowers white (2)

3211 ✓ Eriocaulaceae - flowers white (2)

3212 ✓ Eriocaulaceae - flowers white (2)

3213 ✓ Eriocaulaceae - flowers white (2)

X 3214 ✓ Podostemonaceae - flowers white (2)

X 3215 ✓ Podostemonaceae - flower stems pink - stamens white (2)

Labeceras del Cuduyari - 12/10/43

3216 ✓ Legume - trees - 30 M. - flowers white stamens red (2)

X 3217 ✓ Tree - 6 M. - flowers white - calyx pink -

Rubiaceae (4)

Mapaboda 12/10/43

3218 ✓ Herb - flowers red (2)

X 3219 ✓ Sedge (3)

3220 ✓ Navia? Bromeliaceae - Rocks of Casa del Gallo (2)

3221 ✓ Navia - same location as above (2)

3222 ✓ Epidendrum - flowers rose pink (3)

3223 ✓ Bromeliad - navia? - forms branching colonial shrubby clumps - flowers white (1)

3224 ✓ White subsalia - pleasant fragrance (1)

3225 ✓ Legume - woody liana - flowers lavender (2)

3226 ✓ Shrub or small tree - 3 M. - flowers white (2)

X 3227 ✓ Morantia - shrub - 2 M. - flowers greenish white (2)

3228 ✓ Calliandra - flowers maroon - shrub 1 1/2 M. (2)

3229 ✓ Loranthaceae (2)

3230 ✓ Small tree - 4 M. (2)

3231 ✓ Annonaceae - tree - 5 M. - flowers greenish (2)

X 3232 ✓ Tree - 5 M. - flowers white (2)

3233 ✓ Pelliciera? tree - 3 M. - flowers pink (1)

3234 ✓ Tree - 4 M. - flowers old rose Fabaceae (2)

3235 ✓ Herb - flowers lavender (2)

3236 ✓ Shrub - compositae - 3 M. - flowers lavender (2)

3237 ✓ Amaryllidaceae - shrub - branched - 1 1/2 M. - flowers white (2)

3238 ✓ Asclepiad - flowers greenish (2)



- 3239 Asclepiad - flowers greenish tan (2)
- 3240 Epidendrum L. & P. reddish tan - lip white  
leaves reddish. (2)
- X 3241 Small tree - 3m. - flowers yellow (2)
- 3242 Small tree - 3m. (2)
- 3243 Tree - 4m. - flowers greenish yellow (2)
- X 3244 Phyllanthus - shrub or small tree - 2m. (2)
- 3245 Shrub - 1m. - flowers pink (2)
- 3246 Asclepiad - vine - petals olive green - center dull  
maroon. (2)
- X 3247 Vine - river bank - flowers pink (2)  
Cab. Cubique - 12/8/43 (2)
- 3248 Vochysia - tree - 12m. - flowers orange - inflorescence erect (2)
- X 3249 Shrub or small tree - 3m. - Ilex - flowers  
bright yellow (2)
- 3250 Bignoniaceae - liana - flowers white (2)
- 3251 Pourouma - tree - 20m. - river bank (2)  
Munipari - 11/10/43 (2)
- 3252 Astrocaryum acule - see diary (1)

Rio Cuoyari - 1/20/44 V. H. S. S.

- X 3253 Liana - flowers red (3)
- 3254 Tree - 25m. - flowers pale green (4)
- 3255 Acaulescent or short tree - Malvaceae 9 line flowers -  
Ikwir Kisoro - (1)
- X 3256 Liana - flowers greenish white (3)
- 3257 Bignoniaceae - flowers pale tan - reticulated deep maroon -  
labellum fringed (1)
- 3258 Bulbophyllum? - flowers tan spotted brown (1)
- 3259 Rubiaceae - woody herb - flowers calyx orange,  
corolla bright yellow. (1)

Rio Cuoyari - "Yapoboda" 1/23/44 -

- 3260 Small tree - 3m. - milky juice - fruits edible (1)
- 3261 Small tree - 2m. - flowers tan (3)
- X 3262 Bombax - small tree - 1 1/2 m. (3)



- 3263 Small tree - 1 1/2 m. - flowers pink (2)
- 3264 Shrub - 1/2 m - flowers red (1)
- 3265 *Penstemon* - small tree - 3 m (1)
- 3266 Small tree - 4 m. - fruits purple black (3)
- 3267 Shrub - 1 m. (3)
- 3268 *Marica?* or *Pitcairnia* - flowers white (1)
- 3269 Small tree - 3 m. - flowers yellow (4)
- 3270 Herb - flowers greenish yellow (1)
- 3271 *Apocynaceae* - small tree: 1 1/2 to 2 m. - flowers white (4)
- 3272 Small tree - 2 m. - fruits red bracts (3)
- 3273 *Violaceae* - shrub - 1 1/2 m - flowers white (2)
- 3274 *Cryptopodium* - flowers dull yellow (1)
- 3275 Tree - 4 m - flowers white (3)
- 3276 *Penstemon* orchid - flowers rose purple (2)
- 3277 Palm - *Syagrus?* - Snake trunk - 2 - 4 m - Fruits chestnuts  
 inter-foliarious - pinnate - leaves pinnate - about 6-8 (2)
- 3278 in specimens book -
- 3278 *Mimosa* - Snake trunk - nodding 6-8 m. Fls. (1)  
 very large for the genus - nodding - 6-8 flowers -

Yurupari - 2/20/44 -

- 3279 79 - Sapote - to 2 1/2 m. (2)
- 3280 80 - Herb - fls. orange (1)
- 3281 81 - Shrub (4)
- 3282 82 - Herb (5)
- 3283 83 - *Besleria* - woody herb - 1 m. fls. red (3)

Rio Quinari - 2/16/44

- 3284 84 - Flowers pink & white - *Heliconia?* (1)

*Heliconia*

284 - A - *Renanthera* - growing in Navy Forest



Rio Querari 2/16/44

3285 - <sup>3285</sup> Leguminosae - growing in termite nests - flowers pale pink (1)

~~3286~~ <sup>3286</sup> Mafaboda - 12/10/43

3286 - <sup>3286</sup> Pittuclaria - flowers white (1)

3287 - <sup>3287</sup> Juncaceae - flowers yellow (1)

<sup>3288</sup> Muscupari - 2/20/44

3288 - <sup>3288</sup> Herb - flowers yellow (1)

Rio Querari 2/10/1944

3289 - <sup>3289</sup> (1) Bad rubber - slender trees to 30 M tall - trunks cylindrical latex yellowish drying pale yellow - bark grey slightly flaking - inner bark yellowish - leaves horizontal with greenish white undersurfaces (1)

3290 - <sup>3290</sup> (2) Good rubber - trunks cylindrical - 30 M tall - bark brownish grey - slightly flaking - inner bark reddish brown - latex pale yellow drying bright yellow - stems

Rio Piraboton 2/12/44

3291 - <sup>3291</sup> (3) Very good rubber - tree 25 M tall - trunk cylindrical - bark grey slightly flaking - inner bark reddish brown - latex of lower trunk pale yellow - of branches bright yellow - leaves erect with whitish undersurfaces - prominent scaly terminal bud.

3292 - <sup>3292</sup> (4) Same as in (3291) - bark very hard with sandy texture - grey slightly scaling outer bark - inner bark pale tan.

Rio Napes 2/19/44 - Circasia

3293 - <sup>3293</sup> (5) Bad rubber - slender tree - 20 M tall - latex white drying yellow - leaflets reclinate - green on lower surfaces.

Rio Napes 2/20/44 Muscupari

3294 - <sup>3294</sup> (6) Tree 20 M tall - good rubber - latex white drying mat white - leaves horizontal - juvenile leaves with lavender undersurfaces.

3295 - <sup>3295</sup> (7) Tall tree 30 M - leaflets erect - whitish on lower surfaces rubber good Latex pale yellow

3296 - <sup>3296</sup> (8) Leaflets erect - tree 30 M - rubber good. Latex yellow

3297 - <sup>3297</sup> (9) - Latex bright yellow - good rubber - new leaves flacid red - juvenile leaves very large - mature leaves much smaller leaves semi-erect flowers yellow



Rapid Rio Bacuraba 11/4/44

3321. Acepoid vine flowers dull yellowish green  
X 3322. Sedge -  
3323. Small tree 3 M flowers pale pink  
3324. Small tree 4 M flowers pale yellow  
3325. Orchid - flowers pale pink.

Villarica 1/2/45

3326. Tree - 10 M - flowers white - legume  
X 3327. Herb - flowers blue  
X 3328. Euphorbia - 15 M - flowers scarlet  
<sup>3329</sup>  
X 3329. Shrub - 1 1/2 M - acanthaceae - flowers white  
<sup>3330</sup>  
X 3330. Convolvulaceae - vine - flowers purple  
<sup>3331</sup>  
X 3331. Jacaranda - flowers blue purple  
<sup>3332</sup>  
X 3332. Composite - shrub - 1 1/2 M.  
<sup>3333</sup>  
X 3333. Cassia - shrub - 2 M.

Rio Yapez - vicinity of MITO - 2/6/45

- <sup>10 ft.</sup>  
3334. Shrub - MEASTOMACEAE - COMMON TO SEASONALLY FLOODED  
MARSHES OF CLAMIAS - Flowers white -

Rio Yapez - vicinity of MITO - 2/22/45

- <sup>3335</sup>  
3335. Bromeliad - Epiphytic - CRASH SCRAP BRACKS PRO -  
<sup>3336</sup>  
3336. PASSIFLORA - VINE Shrubby ONLY - FR. SCARLET -  
<sup>3337</sup>  
3337. HEVEA - TREE - 20 M - RIVER BANK - LATEX PALE  
YELLOW - QUALITY VERY POOR - LEAVES NEARLY  
HORIZONTAL. CURIOUS DEVELOPMENT OF 4 CARPALS  
IN SINGLE FRUITING BRANCH - UNDER SURFACES  
OF LEAVES BRIGHT GREEN - NEW TWIGS RED -

- <sup>3338</sup>  
3338. HEVEA - TREE - 20 M - LATEX PURE WHITE -  
QUALITY WEAK - LEAVES NEARLY HORIZONTAL -  
UNDER SURFACES WHITEISH -



3298 - (10) Bad rubber - growing in mistizales - Tree 20 M <sup>tall</sup> tall  
latex yellow - leaves serrate - rubber very bad

NOTES TO HERE SENT WOODSON 4/21/46

(NOTE - ALL HAWAII MATERIAL HAS BEEN SENT TO  
PH. RICHARD SMITH FOR ANALYSIS)

Rio Cudugasi 8/15/44

- 3299 - *Acacalis cyanea*? (1)
- X 3300 - Tree - legume - flowers yellow - 20 M (1)
- 3301 - *SCYTICARIA STEELII* Orchid - flowers very fragrant (1)
- X 3302 - Legume forming thickets along stream banks - flowers white (1)
- 3303 - Tree - 20 M - flowers pinkish white (1)
- 3304 - Small tree or shrub along stream banks - flowers green (1) Dish
- ~~3305~~ (Baccharis rapids) Rio Napos (~~Baccharis rapids~~) 12/8/44
- 3305 - Bromeliad ~~acid~~ - spathe dull purple (2)
- X 3306 - Cassia - tree - 15 M - flowers bright yellow (1)
- 3307 - Clusia - tree 5 M - flowers pink (1)
- X 3308 - Tree 20 M - flowers white (1)
- 3309 - *Melastomac* - growing on boulders - flowers pink (1)
- X 3310 - Composit - shrub - 1 M - flowers white (1)
- 3311 - *Sabralia* - 2 M - flowers white throat yellow (1)
- 3312 - Small tree - 4 M - flowers white (2)
- 3313 - Apocynac - vine inflorescences pendant  
bracts pure white - flowers yellow with pink centers (3)
- 3314 - Epiphytic *acrid*. (3)
- 3315 - *Hicis* - tree 15 M. (1)
- 3316 - Apocynac - 10 M - flowers white (1)
- 3317 - *Bursera*? - flowers pink - 8 M COMMON TO  
TERRACE RESEARCH (4)
- 3318 - Small tree - 6 M (1)
- X 3319 - Bromeliad epiphytic (2)
- 3320 Rio Parapichuna 12/8/44
- X 3320 - Herb - flowers yellow



- 3338 - PASSIFLORA - FLs. SCARLET - (5)
- 3340 - PASSIFLORA - FLs. LAVENDER - (5)
- 3341 - STYCHNOS - HUGE LIANA, COMMON TO RIVER  
BANKS - FLs. WHITE - FRUITS YELLOW - (5)
- 3342 - TREE - 30 M - FLs. PINK - (5)

NOTES SENT WOODSON TO HALL 4/24/46

VICINITY OF MITO - YAPES - MARCH 4, 1945  
(with PEDRO LOPEZ)

- 343 - TIMBUSOPS sp - TALL TREE - 30 M -  
called locally "MASABANDORA" (10)
- 344 - LUCUMA - TREE - 25 M - STERILE -  
called "ABIU-RANA" (5)
- 345 - TREE - 25 M - called "TURUBI" (5)

VICINITY OF MITO - YAPES - 3/21/45

- 346 - TREE - 20 M - Sepals & Petals BLUE - Lavender  
Rose PINK - Laciniae - FRAGRANT - TREES MOST  
FREQUENT in low - poorly DRAINED AREAS - (5)
- 347 - VOCHYSIA - TREE - 30 M - FLOWERS ORANGE -  
most FREQUENT on slightly elevated land - in colonies. (5)



Oct. 13, 1945

Villaricencio - Road to Restrepo  
5000 m.

- <sup>3348</sup>  
~~3348~~ Small tree - 6 m - Melastomaceae - flowers  
rose pink (6)
- <sup>3349</sup>  
~~3349~~ Gesneriac - corolla tube - salmon red.  
corolla lobes green. (3)
- <sup>3350</sup>  
~~3350~~ Gesneriac - flowers cream white - on steep  
road side banks. (2)
- <sup>3351</sup>  
~~3351~~ Lycopodium (P)

Oct. 21, 1945

<sup>Serrania</sup>  
~~Serrania~~ South of San Martín - Int. de Meta  
500 m.

- <sup>2352</sup>  
~~2352~~ Palm - common in forest patches - trunk  
solitary ringed - 4 to 5 in. in diameter -  
unarmed - average 6 to 10 m. height -  
having 8 to 10 live fronds with no  
crown shafts. - Fronds erect with  
horizontal tips - basal fronds often  
drooping - spathes 2 to 4 - infra-foliarious  
erect or semi-erect, in flower  
usually pendant in fruit. Flowers  
straw yellow, fragrant. (Previously  
seen Apoboda area alto Cuduyasi) (1)

- <sup>3353</sup>  
~~3353~~ Tree - Lauraceae - 15 m - flowers pale  
yellow. (5)
- <sup>3354</sup>  
~~3354~~ Gentianaceae - flowers pale green to white. (1)
- <sup>3355</sup>  
~~3355~~ Zamia (all specimens seem caulescent) (2)



Oct. 23, 1945

Road to San Martin near the Rio Ocoa

\*3356 Bromeliaceae - flowers cream white - <sup>common</sup> ~~common~~  
- to road side banks.

3357 Bactris - 12 to 15 ~~ft.~~ <sup>to</sup> ft. dense clumps up to  
40 canes averaging 5 to 6 fronds each.

3358 Bactris - average 5 m. - dense clumps from  
10 to 40 canes 1 1/2 in. diameter with 5 to 7  
fronds.

\*3359 Melastomaceae - flowers pink - <sup>side herb</sup> ~~common~~ <sup>herb</sup> road side

\*3360 Lilia Gussale - tall herb up to 2 m in <sup>road</sup> road  
side pools - flowers pale yellow.

3361 Piliaceae - tree up to 20 m. - flowers white

\*3362 Maracewiczia - small tree to 5 m. - <sup>scarlet</sup> ~~fracts~~ scarlet  
common.

\*3363 Nothysia - tree to 25 m. - flowers orange.

~~3364~~



Nov. 20. 1945  
 Abiu Igatape - COMISSARIA do VAUPE - REGION EAST  
 OF MITU -

- 3364 - *Acacalis* - sepals + petals blue - labellum lavender
- 3365 - *Passiflora* - flowers scarlet.
- 3366 - Tree - 35 M - flowers yellow - frequent in forest.
- 3367 - Tree - 25 M - flowers orange & legume.
- X 3368 - *Pecoma* - tree - 6 M - flowers yellow.
- 3369 - Liana - apocynac - flowers yellow.
- ~~3370~~

Nov. 21 - 1945  
 GUARACAPUÍ CACHOEIRA, RIO VAUPE - REGION EAST OF  
 MITU -

- X 3370 - *Strychnos* - liana - flowers cream yellow
- 3371 - *Morantea* - epiphytic shrub - nectaries scarlet
- X 3372 - Sedge - common to upper river (seen in great quantities in upper Curicupu AND MACU - PARANA)
- 3373 - Tree - 20 M - flowers green
- X 3374 - Legume - tree - flowers lavender - forming stunted trees - 2 M. - on granite near cachoeiras - trees to 5-6 M. in marginal forest.
- 3375 - Tree - 20 M. - flowers white.
- X 3376 - Tree - 30 M - flowers white.
- X 3377 - Tree - 25 M. - flowers pink.
- 3378 - Liana - legume - flowers dull purple.
- 3379 - Legume - tree - 10 M. - flowers bright pink.
- X 3380 - *Melastomac* - tree - 6 M. - flowers white
- 3381 - Liana - flowers white.
- 3382 - *Malpigh* - liana - flowers yellow
- 3383 - Small tree - 6 M. - flowers white - frequent on flooded river margins.
- 3384 - *Myrsicaceae* - small tree - 6 M. - flowers white - fairly frequent on flooded river margins.
- 3385 - Tree - 15 M. - flowers purple
- 3385 - *A. BIFRANARIA* - Epiphytic - (1)



3386 <sup>3386</sup> Jaschflora - flowers blue

~~3387~~ - Nov. 20 - 1945

Abigu Igarape -

3387 <sup>3387</sup> Apocynac - small tree - thickly set in  
rebasas - 5 to 6 m. lower trunk swollen - flowers  
white - common in lower course of stream.

~~3388~~ - Nov. 18 - 1945

Bacuraba' - CACHOEIRA, Rio Vaupes. Region  
S-E of MITU - 200 ft.

3388 <sup>3388</sup> - Small tree - in heavy forest - 10 m. - flowers white

3389 <sup>3389</sup> - Legume tree <sup>60 ft.</sup> common to river front - flowers  
yellow - foliage greyish.

3390 <sup>3390</sup> - Legume - Swartzia? - tree - 25 m. - flowers  
pale pink - fairly frequent to river front.

~~3391~~

Nov. 12 - 1945

<sup>3391</sup> Vicinity of Ciscica - Vaupes 250 ft.

3391 <sup>3391</sup> Gentianaceae - flowers blue - in heavy forest.

~~3392~~

Nov. 8 - 1945

Misallous - Vaupes - 300 ft.

3392 <sup>3392</sup> Rubiac - shrub or small tree - 8 m. - flowers yellow

3393 <sup>3393</sup> - Psidium pusillum - flowers yellow

3394 <sup>3394</sup> - tree - 20 m. - legume - common - flowers white

~~3395~~ Nov. 11 - 1945

Yorupari Falls, Rio Vaupes.

<sup>3395</sup>

X3395 - TREE - TO 10 m. - FB. BRIGHT yellow -

Nov. 18 - 1945

Bacuraba - Vaupes

3396 <sup>3396</sup> Plumeria - ~~10 m.~~ - flowers white - tree

6 to 8 m. - fairly frequent near cachoeiras

3397 <sup>3397</sup> - Apocynac - vine - flowers pale yellow

3398 <sup>3398</sup> - Apocynac - vine - inflorescence pendant - calyx  
lobes yellow - inner tube pink - bracts white



- 3399 *Dioscorea* - flowers dull purple  
 3400 Small tree - 10 M. - flowers green  
 3401 Spreading tree - 10 M. - flowers pink - fragrant -  
 fairly common on granite overhanging rapids  
 3402 *Gentiana* - shrub - 2 M. - flowers yellow - fragrant  
 3403 *Gentiana* - flowers pale green - common  
 ON GRANITE OUTCROPS -

Nov - 21 - 1945

Peru - ~~Amazon~~ CACHOEIRA - Region  
 S-E of MITO - Rio VALES - NOV. 21 - 1945

- 3404 - Tree - 20 M. - on rocks above rapids - flowers <sup>white</sup>  
 Villavieja - Dec. 2. 1945  
 3405 - Composite - ~~thick~~ woody herb - 1 1/2 M. - flower  
 pink.  
 3406 - *Clerodendron* - <sup>SCANDENT VINE</sup> ~~woody~~ - flowers pink  
 3407 - *Asclepiad* - flowers white - vine

RIO META - VICINITY OF REMOQUIO - AUG. 18, 1945

3407-A - *Reystonea* - TREES TO 25 METERS, AS  
 ISOLATED SPECIMENS, OR IN GROVES, GROWN  
 INTERMIXED WITH *SAPIUM*. 12-16 LIVE  
 FRONDS, CARRIED HORIZONTALLY, WITH DRAGN  
 TIPS. TRUNK CYLINDRICAL, WHITE, OBSCURELY  
 RINGED 20 TO 24 INCHES IN DIAMETER  
 AT BRANCH POINT. CROWN PART ABOUT 2  
 METERS - INFLORESCENCES 2-3 - WHISKER-LIKE  
 AT 45° ASCENDING ANGLE - STRANDS UNDOUBT.  
 FRUITS BLACK -

3 1/2 to 4 1/2

METERS LONG  
 WITH 200-  
 230 BRANCHES.

NOTES OFF TO HARRIS  
 11/9/46



Plants

of

Panama



El Valle de Antón 1000 M.  
 March 16, 1946  
 North Side

- 3408 - Palm - 4 m - averaging 5 fronds - trunk  
 about 4 m. in diameter (1)
- 3409 - Small tree - 3 m - flowers white. (2)
- 3410 - Shrub - Cestrum - flowers yellow - 1 1/2 m. (4)
- 3411 - Columnia - epiphytic shrub -  
 1/2 m - flowers yellow - undersides of  
 leaves dark red. (6)
- 3412 - Columnia - flowers red - epiphytic (11)
- 3413 - <sup>Symplocos, SLOBOHIFERA</sup> tree - 30 m - guttiferous & yellow  
 latex - flowers dark red - ~~Platanus~~? (4)
- 3414 - Epiphytic shrub - 2 m - Labiaceae -  
 flowers purple. (5)
- 3415 - Cavendishia - epiphytic shrub -  
 3 m - calyxes red - corolla tube white (8)
- 3416 - Plantain - flowers maroon (3)
- 3417 - Tree - 30 m - (4)
- 3418 - Tree - 30 m - flowers pink (4)
- 3419 - Tree - 25 m - flowers green (3)
- 3420 - Lockhartia - flowers yellow (1)
- 3421 - Rubiaceae - epiphytic herb (1)
- 3422 - Orchid - flowers brown. Platanus common (1)
- 3423 - Schefflera - epiphytic shrub - 1 m (4)
- 3424 - Oncidium - flowers yellow (1)
- 3425 - Bromeliad - (1)
- 3426 - Tree - Calceolarium Viride? - 30 m -  
 flowers green - NOT VIRIDE - NOT MAXIMIZING (10)
- 19  
 (19 numbers) (74 sheets) (5 Septs - etc.)



VICINITY OF PIÑA, HILLS BORDERING BATON LAKE - 20 M -  
4-7-46

- 3427 - *Niacanthus* - flowers dull purple - (2  
3428 - Woody liana - flowers lavender - growing  
in tops of large trees -  
3429 - Rice - 20 M - flowers tan  
3430 - *Geonoma* - single trunk - 2 1/2 in in  
diameter - 3 M. tall BREVIA  
3431 - *Passiflora vitifolia* - vine - scarlet  
flowers  
3432 - *Combretum* <sup>COCCINEUM</sup> - large woody vine - flowers  
red

Swamps bordering Rio Chaguan  
Vicinity of Port San Lorenzo - 0 M.

- 3433 - *Saurauia* - (mangroviaceae) - woody  
liana - bracts orange -

VICINITY OF CERRO JEFE - RANGE BACK OF  
PASORA - 600 M - 4-23-46

*ENTEROLOBIUM* FORBESII FORBES & SKOTT

- 3434 - *ENTEROLOBIUM* - TREES AVERAGING 25 METERS -  
Flowers sessile, white. Called "EUA BINO".

- 3435 - *GEONOMA* - AVERAGE 2 1/2 M - 12-15. FLOWERS  
TRUNKS SOLITARY - 1-1 1/4" DIAM. INFLORESCENCES  
PERSISTENT - Common - Secondary to COASTAL FORESTS

*TERMINALIA* CHIRIQUENSIS

- 3436 - *TERMINALIA* - TREES AVERAGING 25 METERS -

CHARA PANAMENSIS STANLEY & LAM.

- 3437 - *SAURAU* ? - TREES - TO 20 M. FLOWERS  
white - FRAGRANT



*Symphonia globulifera* L.f.

3438 - ~~RHOEA~~ - TREES AVERAGING 20 m.  
Flowering in periodically flooded MARSH &  
Swamp.

3439 - LAURACEAE. Small TREES - 10 m -

3440 - BACTRIS - STOLONIFEROUS - 3-4 CANES - 1 1/2"  
DIAMETER - 40-5 m tall. Spines on CANES  
in whorls 5" apart - Crowns of 5-6 live  
FRONDS - seems closest to *B. Divisicarpa*

VICINITY OF PACORA. 25 m. Flowered  
in the collection of GRAYSON FAIRCHILD  
5/9/46

3441 - ONCIDIUM PANAMENSE? Spikes, petals & sepals of  
3442 - ONCIDIUM - PLANTS IDENTICAL WITH O. PANAMENSE. Sepals, petals & sepals RED-BROWN. Calyx  
Flowers similarly colored, but different in FORM. ①

VICINITY OF SAN CARLOS - 100 m. Flowered  
in the collection of MR. HARRY DUNN. 4/20/46

3443 - EPIDENDRUM ATROPURPUREUM <sup>willd.</sup> VARIETY WITH DEEP  
<sup>DAUMISIA</sup> DULL PURPLE Spikes & petals & very deep UNMARKED  
ROSE LADDER. Pickle - ①

VICINITY OF EMBORA, CANAL ZONE - 100 m.  
5/13/46

3444 - ORCHID - EPiphytic - Flowers white ①  
*Campylacanthus MICRANTHUS* (Lindl.) Rolfe



VICINITY OF PACORA - Prov. OF PANAMA - ABOUT  
0 - 20 MI. 5/12/46

- 3445 - TREE - 6 m - FLESHY HESPERIDACEAE RED - (7)  
3446 - FIGS - LARGE SPREADING TREE <sup>20M</sup> TRUNK LIKE F. NITIDA (17)  
SWAMPY NEAR COAST -  
3447 - BANISTERIA <sup>LAURIFOLIA L.</sup> - LARGE WOODY LIMA - FL. YELLOW (12)  
3448 - SHRUB - 3 m. FL. WHITE (13)  
3449 - LIMA - FL. WHITE - FRAGRANT. (15)  
3450 - COCONUTS - TREE OR SCANDENT TREE - 10 m.  
FL. GREEN - SHARP THICKS RESEMBLING BUT  
OTHER TREES HAVE STRONG BRANCHES. (11)  
3451 - TREE - 20 m - SAPINDACEAE - FRUITS RED (10)  
3452 - RUBIACEAE - SHRUB - 1/2 m - ON BOULDERS IN STREAM  
BUDS - FLOWERS WHITE - LINDLEYA RIVAE'S BENTH. (10)  
3453 - TREE - 10 m. FLOWERS WHITE - (12)  
3454 - CHUSIA - TREE - 15 m. (9)  
3455 - CORDIA - FLOWERS TINY (2 mm) YELLOW - FRUITS RED  
CONSPICUOUS. (5)

3456 - CATAPETUM VIRIDI FLAVUM - STAMENS FL. (1)

LAND DEL VOLCAN - PROVINCE OF CHIRIQUI  
1500 - 1600 MI. 5/27/46 WITH D. B. FAIRCHILD

- 3457 - EUCALYPTUS - ON BANKS OF VOLCANIC RIVER  
BOULDERS - FL. YELLOW - (10)  
3458 - TREE - 6 m - FL. YELLOW - (10)  
3459 - PERUVIA CORIOLIA - FL. WHITE - (8)  
3460 - ERICACEAE - SHrub OR SMALL TREE - 4 m. FL.  
WHITE - (6)  
3461 - SHrub - 1 1/2 m. (8)  
3462 - ERICACEAE - SHrub - 2 m. FL. PINK. (5)  
3463 - ERICACEAE - SHrub - 3 m. BRACTS PINK.  
COROLLA TUBES PINK - COROLLA LOBES WHITE. (10)



- 3464 - QUERCUS - 10 m. in Rocky CORAL (15)  
 3465 - QUERCUS - TREE - 20 m. (6)  
 3466 - TREE - 15 m. ANACARDIACEAE? - SEMINUS (10)  
 3467 - QUERCUS - 20 m. in Rocky CORAL - (9)  
 3468 - ALNUS - TREE - TO 25 m. SCATTERED, BUT  
 FORMING NEARLY PURE STANDS <sup>ON SLOPES</sup> AT AND OF  
 CORAL - 2500 m. (17)  
 3469 - SHRUB - 3 m. VIBURNUM? - FL. PINK - (3)  
 3470 - SHRUB - 2 m. FL. LAVENDER - (6)  
 3471 - SHRUB or small TREE - VIBURNUM? - 4 m.  
 FL. WHITE - (5)  
 3472 - SOBRALIA - ON BOUTARDS - G.P. WHITE - Lip  
 yellow - with crested lines (3)  
 3473 - SOBRALIA - ON VERTICAL ASH & TRAVEL BANKS  
 G.P. WHITE - Lip YELLOW (2)

Cerro Punta - Chiriqui Province  
 Headwaters of Rio Chiriqui Viejo -  
 2000 m. 5/28/46

- 3474 - ERYTHRINA CHIRIQUENSIS - TREE - 25 m.  
 FL. RED - See wood sample - (5) (5)

Vicinity of CONCEPCION, Chiriqui Province  
 100 m. 5/29/46 with G.B. Fairchild

- 3475 - SAPIUM - TREE - 10 m. (15) (15)

Vicinity of Remedios - Chiriqui Province  
 100 m. 5/30/46 with G.B. Fairchild

- 3476 - TREE - LEGUMINOSAE - 20 m. ESCHWEILERIA (5)  
 3477 - TREE - 15 m. CELASTRACEAE - (8)  
 3478 - BRACHID - EPHYRA - New leaves red - FL. BLUE (4) (4)



Cerro Santa-Clara Province - 5/24/46  
2000 m. with A. D. B. Fairchild

- 3479 - EPIDENDRUM - CANES TO 1 m. Fls. GREEN - (1)  
3480 - STERIS - Fls. RED-BROWN - (1)  
3481 - PHORODAPHNE - Fls. MAROON - (1)  
3482 - OCOEA - TREE - 30 m. (15)  
3483 - MELASTOMACEAE - SMALL TREE - 4 m. Fls. WHITE (13)  
3484 - BEYONIA - 75 cm. Fls. WHITE - (14)  
3485 - ARDISIA - TREE - 15 m. Fls. PINK - (12)  
3486 - NETTLE - 2 m. Fls. ORANGE - (1)  
3487 - ISEPTIA - SMALL TREE - 3 m. Fls. PURPLE - (10)  
3488 - EPIPHYTIC FERN - (2)  
3489 - SAKOB - 25 cm. Fls. RED - (4)  
3490 - LAURACEAE - TREE - 30 m. (4)  
3491 - QUERCUS <sup>copayensis</sup> - TREE - 30 m. (8)  
3492 - MELASTOMACEAE - TREE - 12 m. Fls. PALE GREEN -  
NEVER EXPANDING - WITH NOODLING, SEMI-CLAMPING FORM (11)  
3493 - LOCKHARTIA - Fls. YELLOW - WITH RED-BROWN SPOTS - (1)  
3494 - ERICACEAE - EPIPHYTIC SHRUB - 2 m. FRUITS PURPLE - (7)  
3495 - RUBUS - 4 m. FRUITS BLACK (3)  
3496 - QUERCUS - TREE - 30 m. (39)  
3497 - MELASTOMACEAE - TREE - 15 m. Fls. PURPLE - (18)  
3498 - ASCLEPIAD - VINE - Fls. GREEN (6)  
3499 - LEONIA - VINE - SINGS RING - (2)

Llano del Volcan - 1500 m. 5/27/46  
with A. D. B. Fairchild

- 3500 - CHUSIA - TREE - 8 m. EDGE OF BARRANCO - (7)  
3501 - TREE - 6 m. Fls. WHITE - CHESTRA LANATA (10)  
3502 - LOCKHARTIA - Fls. YELLOW - SPOTS RED-BROWN - (3)  
3503 - CHUSIA - TREE - 6 m. COMMON ON LAJA FLOW  
ASSOCIATED WITH CHESTRA LANATA - (7)  
3504 - MAXILLARIA - Fls. TAN - (1)



CERRO PONTE - 2000 M. CHIRIQUI PROVINCE  
 HEADWATERS OF THE RIO CHIRIQUI VIEJO  
 IN COMPANY WITH GRATTAN FAIRCHILD - 5/23/46  
 ARBORESCENS SIMO.

- 3505 - FUCHSIA - SHRUB OR SMALL TREE - 4 M.  
 FL. PURPLE - (29)
- 3506 - PASSIFLORA - VINE - BRACTS BRIGHT PINK  
 FL. PALE GREEN - (3)
- 3507 - TREE - 10 M. FL. GREENISH TAN. (10)
- 3508 - LAURACEAE - TREE - 30 M. (3)
- 3509 - SOLANUM - HERB - 50 CM. FL. TAN - (5)
- 3510 - NOLANEA - EPIDERMIC SHRUB - NECTARIES RED.  
 FL. TAN - POLLENATED BY HUMMINGBIRDS - (6)

VICINITY OF REMEDIOS - CHIRIQUI PROVINCE  
 100 M. 5/30/46 - WITH GRATTAN FAIRCHILD

- 3511 - BRASSAVOLA NOBOSA - FL. WHITE - (1)
- 3512 - CATASETUM <sup>ORCHIDACEAE</sup> ~~PARSONIANUM~~ - FL. TAN  
 GREENISH TAN SPOTTED RED - BROWN TAN  
 RED - BROWN - SPOTTED GREENISH TAN (2)
- 3513 - STENORRHYNCHUS ORCHIOIDES L.C. RICH.  
 TERRESTRIAL - FREQUENT IN SMALL COLONIES ALONG  
 HIGHWAY - SCAPES OF SALMON PINK FL. WITHOUT  
 LEAVES. (3)

LAGO DEL VOLCAN - 1500 M. 5/27/46  
 WITH GRATTAN FAIRCHILD

- 3514 - EPIDENDRUM - LATILABRE LINDB. FL. GREEN - (2)
- 3515 - EPIDENDRUM PARSONIANUM HOOK. (FALCUTUM?)  
 PLANTS PENDANT - S. & P. PINK GREENISH YELLOW  
 LIP WHITE - (13)
- 3516 - PLEUROTHALLIS - FL. DARK RED - (1)



Cerro Punta - 5/24/46 - 2000 m <sup>with Kramer</sup>  
Fairchild <sup>2500m</sup>

Calamagrostis

- 3517 - TRANSIENT ORCHID. Fls. white. ~~Stem~~ <sup>Calamagrostis</sup>  
~~Boottia~~ ~~Stem~~ ? MEXICANA (1)
- 3518 - BERNIERIA - Epiphytic colonial Herb  
50 cm. Fls. pale green - spotted red. (10)
- 3519 - CENTROPHEUS - Herb - 1 1/2 m. Tube red.  
lobes yellow (7)
- 3520 - Heliconia - 3 m. Bracts lavender red -  
Fls. green - (4)
- 3521 - Palm. Seen only at about 2500 m. on  
BOGUE TRAIL - STOLONIFEROUS - 40-20 CANES  
in clump. green - unarmored - 1 1/4 - 1 1/2" diam.  
Average 3-4 m. tall. Very common -  
Average 5-6 fronds. (5)
- 3522 - Epiphyllum - Fls. TAN. See Pickle (1)
- 3523 - QUERCUS - Tree 30 m. tall. (5)
- 3524 - Palm - Solitary trunk - 1" diam. 3 m. tall  
unarmored - Average 5-6 fronds - Fruits green. (2)
- 3525 - Palm - 3 m. Solitary trunk - 3/4" diam. green  
unarmored - Fruits orange. (2)
- 3526 - PALICOUREA - Shrub - 4 m. Fls. yellow (10)
- 3527 - Herb - 2 m. Fls. yellow. (9)
- 3528 - BERNIERIA - Epiphytic colonial Herb  
Also found on rocks in stream beds.  
Fls. yellow. (18)
- 3529 - Tree Fern - 4 m. About 12 fronds.  
Trunk 6" diam. - Fronds about 3 m. long. (4)  
(Specimens in each case on base - base  
pinnae - mid-section pinnae & tip.)
- 3530 - Philodendron - To 3 m. tall. (6)
- 3531 - Palm - "maguapue" Snake trunked or  
very weakly stoloniferous at 1500-2500  
m. elevation - Becoming well developed  
stoloniferous specimens having 6-10 <sup>trunks</sup> ~~trunks~~  
at 2500-3000 m. in heavy low forest



3531 - (CONTINUED) AVERAGE HEIGHT 10-12 M.  
 TRUNKS UNARMED - RINGED (GREEN IN JUVENILE  
 SPECIMENS) MATURING GREY - 6" DIAM. CROWN MOST  
 VERY PROMINENTLY BRUSHED - PURPLE - BLACK -  
 INFLORESCENCES INFRAAXILLARY, 2-4 IN NUMBER -  
 LIVE BRONDS 6-8 - MORE OR LESS HORIZONTAL -  
 (SEE PHOTO) FLOWERS PINK (SEE PICKLE)  
 MATURE FRUITS BLACK (SEE PICKLE)  
 VERY COMMON - (CROWN MOST SPLIT  
 LONGITUDINALLY INTO TWO EQUAL HALVES  
 WHICH WERE EACH CUT INTO THREE TRANSVERSE  
 SECTIONS FOR SPECIMENS.) SPATHES 2 -  
 (ONLY ONE COMPLETE SPATHE COLLECTED CUT  
 IN THREE TRANSVERSE SECTIONS, SPLIT LONGITUDINALLY  
 FOR CONVENIENCE IN PRESSING.) (2)

Llano del Volcan - 1500 M. MAY 23, 1946

3532 - *Epidendrum citrinum* - (2) (Z)

VICINITY OF CONCEPCION - CHIRIQUI PROVINCE  
 100 M. 5/29/46 - WITH TRAILER TRAIL HILLS

3533 - *Cryptopharynganthus* - NOT *C. lepidopus* OR  
*C. powellii* - FOLI. BROWN - (PICKLE) (10) (10)  
 ON RIVER BANK TREES - COMMON -

El Valle de Atenas - NORTH HILLS - 1000 M.  
 JUNE 16, 1946 -

3534 - TREE - 15 M. FL. WHITE - LAURACEAE?  
 FAIRLY COMMON ON STEEP SLOPES OF HILLS  
 FACIES EL VALLE - (15) (15)

3535 - *Adisia Seibertii* - SHrub - 3 M. FL. LAVENDER - (4)



3536 - ARDISIA - SHRUB - 2m. Fl. white - (13)

El Valle de Atotonilco - Dry South Hills  
700m. June 15, 1946

3537 - SOUROBEA - Stout, branching liana -  
Fl. cream yellow - fragrant - (25)

El Valle de Atotonilco - North Hills - 1000m.  
June 16, 1946.

3538

3538 - Vine - in trees (Ficus willdenowii) 15m.

3539 Fruits yellow - (5)

3539 - LYCASTE macrophylla Link. (L. Downiana  
Enders & Rolfs f.) S. & P. olive - lip  
white -

3540

3540 - EPIDENDRUM RADICANS Ruiz et Pavon - in  
grass - Fl. orange - (3)

3541

3541 - SOUROBEA - Epiphytic stout branching  
liana or shrub - Fl. orange - (12)

San Jose Island - Panama Bay - 20m.

Collected by Mr. Walker - Balboa - C. Z.  
Flowered in his collection June 1, 1946

3542

3542 - CYRTOPODIUM punctatum - (Pickard f.) (1)

El Valle - North Hills - 1000m. 6/22/46

3543

3543 - BELOTIA, probably B. PANAMENSIS Pittier - tree  
15m. Fl. pinkish lavender. Sometimes form  
nearly pure orange on cut over land - (27)

3544

3544 - RUBINEAE - SHRUB - Fl. bright blue  
1m. tall. Probably FARAMEA EURYCARPA D. Sm. (1)



- 3545 - *Broussaisia* - Epiphytic - BRACCS SCARLET - (29) (25)
- 3546 - *CONOSTEGIA KALAPANSIS* (Benth.) Don  
Tree - 4 m. Fls. white - common - (21) (21)
- 3547 - *Heliconia villosa* Klotzsch - 1 1/2 m. BRACCS  
Hirsute, BRINDT yellow, corolla SCARLET. Fls. yellow. (10) (10)
- 3548 - *APHELANDRA SUBERTII* Leonard - Common Herb - Fls.  
LAVENDER. (15) (15)
- 3549 - *COSTUS NUTANS* R. Sch. About 75 cm. TALL  
BRACCS yellow - Fls. yellow - (10) (10)
- 3550 - *LOCKHARTIA OBTUSATA* L. Wms. S. y. & Lip BUTTER yellow.  
Lip with ORANGE CALLUS. (SEE flower in pickle) (1) (7)
- 3551 - *CAVENDISHIA STENOPLHYLLA* A.C. Smith - Epiphytic  
BRANCHING SHADE - 1 1/2 m. Fls. purple - (3) (3)
- 3552 - *Asclepiad* - vine - Fls. LAVENDER - (1) (7)
- 3553 - *Heliconia* - Fern-like changes in dense SHADE often  
of 4-6 CANES - TO 2 m. TALL - CANES with  
clustered with slender leaves. Hairs & midrib  
midrib - BRACCS slender, ORANGE, often corolla  
TRANSLUCENT WHITE. Flowers prominently  
EXserted - long - slender - pure white - (1) (7)
- 3554 - *Columnnea Allenii* Morton - Epiphytic - of low  
Pendant chains of succulent leaves - Fls. SCARLET (7) (7)
- 3555 - *Alloplectus PANAMENSIS* Morton - woody herb  
growing as open colonies in dense shade - 1 m. tall  
Fls. SCARLET. (4) (4)
- 3556 - *ANTHOPTEROPSIS INSIGNIS* A.C. Smith - Stout  
Branching Epiphytic SHRUB - Fls. with <sup>bright</sup> ~~brilliant~~  
Pink - Corolla yellow - (20) (20)
- 3557 - *Drymonia* sp. - Stout BRANCHING epiphytic SHRUB  
Fls. with heavy rose purple perianth - (5) (5)
- 3558 - *RUBIACEAE* ? - Branching epiphytic shrub  
1 1/2 m. leaves succulent - Fls. solitary -  
terminal, Salmon Pink. (3) (3)
- 3559 - *CAVENDISHIA DARTTII* A.C. Smith -  
Epiphytic shrub - 1 m. BRACCS Red - Fls.  
pale yellow - (3) (3)



3560 - *MASDEVALLIA COLLINA* L. WMS. epiphytic - TUFFED -  
Fls. RASIN purple with yellow SPURS - (5)

3561 - *ARDISIA SEIBERTII* STANDL. Shrub - 2 m. BRACED  
WIND, Fls. - pinkish lavender - (30)

3562 - *TERAETHUS* (shrub) - in MASS on LOMA del TIENE  
NORTHERN SPINDLE TREE - S.Y.P. PINK BROWN - Lip white, marked  
Kellermanian lavender - (see picture) - Striped FRUITS GREEN ON  
ORANGE VASE. (SEE PICTURE) *EULOPHIA* ?? SEE ALSO  
NO. 3791 (1)

3563 - *ANTHURUM AFF. LITTORALE* ENGLER. Epiphytic.

- 3564 - *TRICHOPIA LAUCOXANTHA* L. WMS. - epiphytic  
Fls. pure white, LABELLUM with LACER yellow  
SPLOCH in throat. (see picture) (1)

3565 - *CHRISTES ROSEA* LHL. in MASS on LOMA del TIENE  
Sepals GREENISH LAVENDER - Petals ROSE LAVENDER  
Lip STRONGLY NERVO ROSE LAVENDER - COMMON. (5)

EL VALLE - FLOOR - 600 m. 6/28/46

3566 - *ALLENANTHUS ERYTHROCARPUS* STANDL. TREES -  
15 m. Fls. white - COMMON - (50)

3567 - *NANAKIA NODOSA* MART. & DAL. - Shrub - TO 4 m.  
Fls. REDDISH ORANGE - VERY COMMON ALONG TRAILS  
in SECOND GROWTH - (3)

3568 - *SOLANACEAE* ? - VINE - FRUITS SCARLET  
(*HYCINANTHUS ACIDOCHEILANDRUM* BITTAK) (10)

EL VALLE - NORTH - 6/29/46

3569 - *ELLEANTHUS HYMICOPHORUS* REED. F. epiphytic  
Fls. ORANGE - Lip EDGED SCARLET. (1)

HILLS SOUTH OF EL VALLE - 800 m. 6/28/46

*Ilex JANAMENSIS* STANDL.  
3570 - ~~*Myrica COSTARICENSIS* ?~~ - Small tree - 3 m.  
Fls. white, COMMON - (12)



VICINITY OF CAMPANA - 25 m. 6/28/46 -

~~PHYRANOMYDIA~~ ~~COXYMBOSA~~

3571 - ~~ARABIDAEA~~ ~~ISTHMOICA~~ STANLEY. WOODY VINE,

Fls. PINK - Very Showy -

(16)

(16)

3572 - ~~ODONTADENIA~~ ~~SPECIOSA~~ BENTH. <sup>FRANCOFLORA</sup> LARGE WOODY  
VINE - Fls. yellow -

(6)

VICINITY OF LA CHARRA - 25 m. 6/28/46 -

3573 - RUBIACEAE - TREE - 8 m. Fls. white, very  
FRAGRANT

(30)

EL VALLE - NORTH HILLS, 1000 m. 6/29/46

3574 - MAGNOLIA ALLANII STANLEY. TREES - TO 30 m.  
WITH BUTTRESSED TRUNKS - Flowers cream  
white - (SEE PICKLE OF Flowers & FRUIT.)

(50)

3575 - ORCHID - EPiphytic - Plants resembling PLANTAGINIS.  
Flowers produced on a short scape at the  
base of the stems, pendant, of 5-6  
dull purple flowers reminiscent of  
CRYPTOPHORANTHUS excepting THAT THE  
sepals are NOT ADNATE AT THEIR TIPS -  
Lip articulated - POSSIBLY AN UNRECORDED  
GENUS. (SEE PICKLE)

(2)

3576 - AECHMEA ALLANII L.B. SMITH - Fruit capsules  
black - Bracts paper white - common -

(1)

EL VALLE - Floor - 600 m. 6/29/46

3577 - CRINUM DARIENSIS woods -

(1)

NOTES copied  
to HERE 7/10/46  
Re-sent  
3568



TRANS-ISTHMIAN Highway - NEAR RIO SATON - 100 m.  
Cohen Province - July 11, 1946

3578 - RUBIACEAE - TREE - 6 m. Flowers white - (5)

VICINITY OF Camp Pina - COHEN PROVINCE - 7/11/46

3579 - STENANDRACEAE - HERB - FORMING colonies on wet  
SHADY BANKS. Flowers pale lavender. (7)

3580 - PANTAGONIA MACROPHYLLA Benth - SHRUB - 2 m.  
Calyx red - corolla yellow - common (5)

3581 - Heliconia villosa Klotzsch - variety with  
yellow bracts edged red - 3 m tall. (3)

3582 - Heliconia villosa - red variety - bracts red  
on entire outer surfaces - yellow blotch  
near flowers within bract - 3 m. (6)

3583 - Heliconia psittacorum? - 3 m - bracts  
red - flowers large, prominently exserted -  
yellow, with dark tips - this seems  
to intergrade with H. straminea - different  
only in average larch size, number of  
bracts & color - (see pickle) (9)

3584 - GRASS - common on roadside banks -

3585 - ISEPTIA HAENKEANA DC - SHRUB - 2 m. Calyx  
red - corolla yellow - common - (7)

3586 - EUPHORBACEAE - SHRUB - 1 1/2 - 2 m. Fls. white  
common - (10)

3587 - COSTOS LAEVIS - 3 m - fls. reticulated  
purple - common - (1)

3588 - ASCLEPIAD - VINE - fls. lavender - (3)

3589 - Stout herb - 3 m. Rays out to MYRSINE  
DASYCARPA (Dasy. 5 m.) <sup>OR STEROMARTE LUTEA</sup> WOODSON - (12)

3590 - Heliconia - Clump of slender <sup>to 4 m</sup> petiolated canes  
2-4 m. Bracts orange - fls. white (see pickle) (11)

3591 - VINE - fls. pale lavender - in tangled wood -  
blown shrubs on sea cliffs. (5)



- 3592 - RUBIACEAE! PROCUUBENT SHRUB - 3m.  
Fls. white - ON WIND-BLOWN SEA CLIFFS. (6)
- 3593 - ~~Hydrocotyle~~ <sup>BONARIENSIS</sup> ~~umbellata~~ <sup>umbellata</sup> (HBK) HUNTER P.  
WET AREAS BACK OF SEA BEACHES - Fls.  
white - (12)

- 3594 - PATICOUREA BUIANENSIS AUBL. - SMALL TREE -  
6m. Flowers yellow - (20)

- 3595 - COSTUS - 2m. Fls. ORANGE - (SEE PICKLE) (3)

- 3596 - ~~RUBIACEAE~~? <sup>XYLOSMA PANAMAYENSIS TURNEZ.</sup>  
Small WIND-BLOWN TREE - 1-3m.  
Fls. white, ON SEA CLIFFS - (5)

- 3597 - CITHAREXYLUM CAUDATUM L. - COMMON SHRUB -  
3m. Fls. white, FRUITS ORANGE - (19)

EL VALLE - NORTH - 7/20/46 - 1000m.  
Rio Indio TRAIL - WITH HAROLD TRAPIRO

- 3598 - CAUVENISHIA LONGIFLORA POVN. SM. - Epiphytic  
SHRUB - SPREADING BRANCHED 2m. BRACTS PINK. (5)

- 3599 - NALICORIA - 2m. BRACTS RED - Fls. GREENISH  
yellow - (~~the flowers are greenish yellow~~)  
(~~see~~) PROBABLY A FORM OF #3583 -  
(SEE PICKLE) (2)

- 3600 - NALICORIA - 1 1/2m. BRACTS BROAD - BOAT-LIKE - ORANGE  
Flowers yellow - (SEE PICKLE) (2)

- 3601 - Epiphytic HARE - 1m. Fls. Terminal - <sup>Salmon</sup> ~~pink~~  
(SEE PICKLE) (1)

- 3602 - UTRICULARIA ENOREZII ROTH. F. - Epiphytic  
Fls. pale lavender - yellow blotch AT BASE  
OF LABELLUM - (1)

Hills SOUTH OF EL VALLE - 400m.  
7/20/46

- 3603 - PATICOUREA TRIPHYLLA - DC. SHRUB - 1 1/2m  
Fls. pale ORANGE - (22)



vicinity of CARRO PUNTA - CHIRIQUI PROVINCE 2000 m.  
(Flowered in PANAMA, C. Z.) collected by SHANN  
Fairchild. 7/25/46

3604

~~3604~~ - *ZYDOPETALUM GRANDIFLORUM* - NEW RECORD  
FOR PANAMA. S. & P. GREEN - STRIPED RED-  
BROWN - LACERATION WHITE, WITH PURPLE LINES  
& YELLOW CRESTED CALLOS - COLUMN WHITE,  
THE UNDER SURFACE WITH DELICATE RED & YELLOW  
PUNCTURED LINES CONVERGING ON THE CRESTED CALLOS,  
WITH LATERAL BANDS OF DELICATE PURPLE PUNCTURED  
LINES. (SEE flower in PICKLE) (1)

vicinity of LA PINTADA - CHIRIQUI PROVINCE - 7/31/46 - ABOUT  
300 m.

3605

Very common along highway FROM ANTON - TO SANTO  
& very occ.

~~3605~~ - TREE - 15 m. Flowers white - FRAGRANT. (25)

~~3606~~ <sup>3606</sup> *VISMIA TUIANENSIS* (Aubl.) Presl. Tree - 4 m.

calyx Brown - Corolla <sup>pink</sup> green - (4)

~~3607~~ <sup>3607</sup> *URANTA REPENS* L. SHAUB - 4 m. Fls. blue -  
FRUITS ORANGE - (3)

~~3608~~ <sup>3608</sup> *ANTHXYLUM SETULOSUM* P. Wilson - TREE - 15 m.  
TRUNK WITH NUMEROUS SUB-CONICAL COARSE SPINES -  
HAVING VERY BROAD BASES - Common - (8)

VACAMONTE POINT - PANAMA PROVINCE - 100 m. 8/1/46 -

3609

~~3609~~ - *CRYOSOPHILA WARSCEWICZII* (Winkl.) Bartlett - Palms  
20 - 35 FT. STARK TRUNK - 5" DIAM. Lower 8-15 FT.  
DENSELY COVERED WITH LONG BRANCHING SPINES - WHICH  
REPRESENT A CONTINUATION OF THE BASAL OCE OF  
ROOTS - UPPER TRUNK RINGED - STAY - UNARMED -  
AVERAGE - 15 - 20 live FAN FRONDS - SILVERY ON  
UNDER SURFACES - INFLORESCENCES INFRA-FOLIOLAR  
1-3 - Flowers & BRACTS creamy white  
VERY COMMON IN FOREST - PROBABLY SEEN BY  
SORENSEN & MISTAKEN FOR *THALASSIA ARDENTIA* (2)



3610 - Heliconia - 1 1/2 m. BRACTS BROAD - Keel-like - BEAT-LIKE - GREENISH yellow turning pinkish with age - Flowers pubescent, prominently exserted - Pale yellow - tipped DARK GREEN - STAMENS EXserted - (see pickle) (6)

3611 - HELICONIA ROSTRATA R. & P. (Heliconia platystachya Baker in standing fl. canal zone). STOUT PLANTS TO 3 1/2 m. CANES SILVERY DRY - INFLORESCENCES PANDOLUS, BRACTS RED WITH yellow TIPS & MARGINS - Rachis yellow - Flowers with tips exserted - yellow - Fruits Blue - common - (2)

VICINITY OF LA CHORRERA - 100 m. 7/31/46

3612 - TREE <sup>COCONUTS</sup> - LEAVES - 25 m. Flowers pink - (see pickle) (50)

RIO LAS LASAS - PANAMA PROVINCE - 20 m. 8/4/46

3613 - BIGNONIAE - Fl. ROSE PINK - LIANA (11)

EL VALLE - 600 m. VCTY. FINCA TOMAS ARIZA - 8/5/46

3614 - Heliconia - DENSE CHUMPS - 3 1/2 - 4 m. INFLORESCENCES PANDOLUS - Rachis DARK RED - BRACTS DARK RED - Fl. yellow - TIPS EXserted - FRUITS Blue - BASE of leaves ACUMINATE - common - (see pickle) (5)  
BRACTEOLAS PRESENT

3615 - Heliconia - 3-4 m. UNDERSIDES of leaves PURPLE INFLORESCENCES erect - TERMINAL on LONG STALK - 1 1/2 m. OK BASAL AS IN RENEALIA - BRACTS SLANDER - DARK GREEN - Fl. <sup>LARGE</sup> ROSE PINK - WITH WHITE TIPS - FRUITS <sup>DARK</sup> BLUE - Fl. prominently EXserted - BRACTEOLAS PRESENT - (see pickle) (4)  
BASE of leaves ACUMINATE FRUITS <sup>DARK</sup> BLUE -



3616 - *Heliconia* - 1 - 1 1/4 m. INFLORESCENCES ERECT.  
RACHIS & BASE OF BRACTS RED - TERMINAL BUD OF  
UNOPENED BRACTS & OUTER 2/3 OF BRACTS YELLOW -  
FLOWERS GREENISH YELLOW - TIPS EXsertED -  
BRACTS PRESENT. BASE OF LEAVES ROUNDED.  
☉ - (SEE PICKLE) (2)

3617 - *Urera elata* (SW.) DRISD. SHRUB - 2 - 3 m.  
FL. PINK - FRUITS ORANGE - SHOWY - (6)

3618 - *Calathea insignis* Peters. 2 m. BRACTS STRAW  
YELLOW - FL. pale pink to straw yellow -  
COMMON - (3)

3619 - *Pothomorphe peltata* (L.) MIGUEL. 1 1/2 m.  
COMMON - (4)

3620 - *Cucurbit* - CORKY LEAVES - FL. ORANGE - (1)

3621 - COMPOSITE - WOODY HERB - 4-5 m. FL. DIRTY  
WHITE - *Clivadium appressipilum* BLAKE? - (3)

3622 - *Erythrina gibbosa* CUFONTIS - TREES - 5-6 m.  
FL. SCARLET - COMMON - (4)

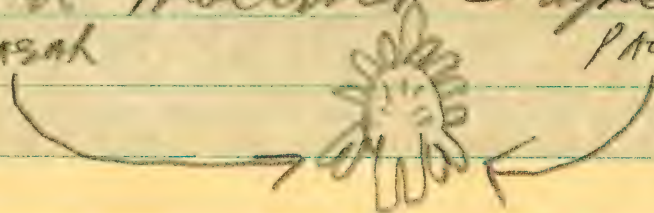
3623 - *Carandouca* - ACANthESCENT HERB - 2 - 2 1/2 m.  
AUGUSTINE 8-10 LEAVES - NOT STOLONIFEROUS -  
BRACTS & FL. WHITE - (5)

3624 - *Cuphea utriculosa* KOEHNIG - HERB - 30 cm.  
COMMON ON ROCKS IN STREAMS FL. PURPLE - (6)

3625 - *Castilla* sp. TREES - 20 m. PROBABLY  
PLANTED - (2)

3626 - *Phyllanthus* - SPREADING TREES - 8 m.  
COMMON ALONG STREAMS - (12)

3627 - *Cycnoches* - STAMINATE CLIMB - S. p.  
& COLUMN GREEN - SPOTTED RED-BROWN -  
LABELLUM WHITE - WITH 13 TOOTH-LIKE  
PROCESSES ON THE MARGIN - (SEE PICKLE)  
FINGER PROCESSES SIMPLE - EXCEPT FOR  
THE BASAL PAIR, WHICH ARE BRANCHED.





3628 - *Cycnoches* - STAMINATE CHAIR - G. & P. NEARLY  
WHITE, WITH TINY SCARLET ROSE-RED DOTS -  
LABELLUM WHITE - WITH 13 FINGER PROCESSES  
NEARLY ALL OF WHICH ARE FORKED -  
(SEE DRAWING & PICKLE)  
PROBABLY BOTH VARIATIONS OF *Cycnoches*  
DIANA -

3629 - *Heliconia vellediana* Poeppig - STOUT HERBS  
3-4 M. BRACTS SCARLET - VILLOUS, WEATHERED  
SMOOTHER WITH AGE - FLs. YELLOW - TIPS  
EXsertED - FRUITS BLUE - INFLORESCENCES  
pendulous - BASE OF LEAVES BROAD - ONE  
LOBE ABOVE THE OTHER - VILLOUS BRACTS  
PRESENT. (1)

3630 - *SAURAVIA*? <sup>24TERMINA STANDL.</sup> - TREE - 15 M. FLs. WHITE, WITH  
YELLOW STAMENS - FRAGRANT - (17)

VICINITY OF TRINDI - CANAL ZONE - 10 M.  
8/14/46

3631 - *Heliconia* - VERY STOUT - 3 1/2 M. LEAVES STAVEOUL  
ON UNDER SURFACES - BASES ROUNDED - ONE  
LOBE ABOVE THE OTHER - INFLORESCENCES  
pendulous - BRACTS RED - RADIUS RED - FLOWERS  
YELLOW - TIPS EXsertED - BRACTEOLAE  
PRESENT - FRUITS LAVENDER - (SEE PICKLE) (1)

VICINITY OF CAMP PINA - 10 M. - 8/14/46

3632 - *ENALLADMA OUCURBITINA* (L.) BAILL. ROCKY  
COASTAL HIGHLANDS - TREE - 10 M. FRUITS  
LIKE MINIATURE CALABASHES - <sup>Panama</sup> Total 1169 (2)



VICINITY OF MAADEN DAM - 25 mi. 8/8/46

3633 - *Heliconia* - 2 mi. BRACTS GREENISH YELLOW.  
Fls. prominently ~~exserted~~ - pubescent - yellow  
with DARK GREEN tips - SAME AS - #3610 (3)

VICINITY OF CAMP PITA - 8/14/46 -

3634 - *Aroid* - TERRESTRIAL, ON STEEP HIGHLANDS - ANTHURIUM - (1)

EL VALLE DE ANTON - 8/21/46 - 1000 mi.

3635 - *Tillandsia guanacastensis* STANDL. Epiphytic.  
BRACTS TAN - Fls. yellow - (6)

3636 - *Euzmania coriostachya* (KRIEB.) Mez - Epiphytic  
Scape BRACTS RED - Fls. JUKE WHITE - (3)

3637 - *Cavendishia capitulata* DENN. Sm. - MUCH BRANCHED  
SHRUB - 1 1/2 mi. Epiphytic - BRACTS PINK - Fls.  
PALE LAVENDER - (7)

3638 - TREE - 20 mi. - <sup>SAPINDACEAE?</sup> FRUITS DARK RED - OPENING  
IN 3 VALVES - DISCLOSING THE SEEDS WHICH  
ARE COVERED WITH AN ORANGE YELLOW HAIR - (6)

3639 - *Cycnoches diane* REEB. F. B. P. & Column  
PALE GREEN SPOTTED RED-BROWN - LABELLUM WHITE  
WITH 11 UNBRANCHED MARGINAL CLAWS. (1)

3640 - *Mucuna* - VINE - Flowers creamy white in  
MARACUJIA - LIKE CHUSTERS ON LONG PENDANT  
CORDS - Common ALONG TRAILS - (7)

3641 - *Ucharis Bouchéi* <sup>woods & along</sup> - Fls. white (1)

3642 - <sup>locum sp.</sup> ~~ACTRAS caricola Pittier~~ ?? TREE - 25 mi.  
FRUITS pale yellow - (SEE PICTURE)



3643 - COMPOSITE - FLESHY BRANCHES EPiphytic  
1 1/2 m. SHRUB - IN TOPS OF TALL TREES - LEAVES  
CORIACEOUS - FLR. PURPLE - SHOWY - (12) (1)

3644 - HELICONIA - 2 m. INF. ERECT - BRACCS ORANGE,  
WITH REDDISH BLUSH AT BASE AND NARROW  
DARK GREEN MARGIN - FLOWERS HIDDEN. DARK  
GREEN. BRACCS PRESENT - (SEE PICKLE) (1) (1)

3645 - TREE - 30 m. FLR. pale yellow - (14) (1)

VICINITY OF LA CHORRERA - 8/27/46 -

3646 - BIGNONIAE - VINE - FLR. WHITE, STRIPED LAVENDER  
COMMON ALONG HIGHWAY IN SECOND GROWTH - (7)

VICINITY OF OCU - 8/28/46

3647 - CHRYSOPLYLLUM CAINITO L. TREES 20 m.  
COMMON IN PASTURES ALONG STREAMS. (6)

3648 - DENDROPHANAX? TREE - 10 m. FLR. GREENISH WHITE  
COMMON - (9)

VICINITY OF SAN FELIX - CHIRIQUI PROVINCE  
100 m. 8/29/46

3649 - CROTON <sup>STYERACIANTHUS CROIZAT</sup> ~~PANAMENSIS (KLOTZSCH)~~ MUTH. ART.  
TREE - 12 m. SPREADING - FLR. WHITE  
COMMON - (6)

3650 - TREE - 6 m. FLR. WHITE - FRUITS WITH  
COVERING OF GREENISH YELLOW POWDER - (12)

3651 - TILLANDSIA FLEXUOSA SW. FLOWERS RED - (4)



3652 - TUSSACIA WOODSONIANA - calyx deep orange - red  
corolla yellow - striped orange - common on  
wet roadside banks. (10) (1)

3653 - MELASTOMACEAE - SHRUB - 1 1/2 m. Fls. pink - (10) (1)

3654 - SHRUB - 2 m. Fruits pink -

3655 - COCCOLOBA - SPREADING TREE - 6 m. Along River  
banks - (9) (9)

3656 - STERECULIA MYRTIL (Jacq.) Karst. - TREE - 25 m.  
Fls. tan - marked red-brown - Along River (2) (1)

3657 - BENIGA AMERICANA L. TREE - 5 m. Fls.  
pale yellow - common in pastures -  
BENIGA CARUTA H.B.K. ?? (8) (8)

3658 - CATASETUM <sup>OCLADEA</sup> ~~MACROCARPUM~~ - ON fence posts - (1) (1)

0.150 m  
VICINITY OF REMEDIOS - 8/29/46 -

3659 - ANDIRA - TREE - 25 m. Flowers bluish lavender - (40)  
DOES NOT FIT A. INEQUIS, JAMAICENSIS OR CHIRICA.  
Looks like a species common on the Vayas. (3) (1)

3660 - VRIESIA SANGUINOLENTA ECHN. & MARCHAL.  
Huge tank epiphytes in tops of large trees - (3) (1)

3661 - CITRAPHYLUM sp. - Small tree - 3 m. Fruits  
orange - infrequent in second growth - (7) (7)

3662 - TREE - TILIACEAE - 25 m. Fls. yellow - (20) (2)



3663 - *Erythrina rubra* HBK. Fence Post  
Common - (3)

3664 - *Warscewiczia coccinea* (Vahl) Klotzsch  
Shrub or small tree - 3-4 m. Bracts  
Scarlet. Fls. yellow - Common (5)

3665 - <sup>TRINIA FATA -</sup> TREE - 8 m. Fls. white, with yellow  
stamens - on edge of mangrove swamp. (12)

3666 - ~~Pithecellobium~~ - Small tree - 8 m. Fls.  
Rose red - *Calliandra tonduzii* (B.R.) Stand. (9)

3667 - *Tillandsia usneoides* L. - on tall trees in  
mangrove swamps east of Remedios. (5)

3668 - *Heliconia* - Bracts greenish yellow - Fls. yellow  
prominently exserted - with dark green tips.  
Fruits blue - Same as # 3633 & 3610 (5)

3669 - *Bellucia grossularioides* (L.) Triana ? -  
Tree - 6 m. Fls. pale pink. (8)

Vicinity of Camp Pina, Colon Province - 25 m.  
9/16/46

3670 - Small tree - 10 m. Very common in cut over land.  
Fruits red - Flowers greenish yellow - (10)

3671 - *Mikania* ? - Large vine, very common in  
shrubs & trees - Fls. drabish white - (10)

3672 - Shrub - 2 m. *Tristemma* - Rachis &  
calyx dark red - Fls. white - Common. (10)

3673 - *Verbena* ? - Weedy herb - Fls. blue - (6)



3674 - TREE - 5 m. - Fls. white - FRUITS RED -  
COMMON IN SECOND GROWTH SCRUB -

(2)

3675 - TREE - 10 m. Fls. white, with yellow STAMENS  
SAME AS # 3665 - ~~TALAMITA~~ sp.

(6)

3676 - TREE - 20 m. ANNONACEAE ? - Fls. CREAM  
yellow -

(12)

(12)

3677 - SOLANUM - SHRUB OR SMALL TREE - 3 m.  
Fls. white - COMMON -

(12)

(12)

3678 - COPANIA SERMANNI TRIN & PLANCH. ? Small  
TREE - 10 m. FRUITS RED - ARIL OF BEED  
ORANGE -

(12)

3679 - JACARATIA COSTARICENSIS TRIN. & JONASTON -  
TREE - 20 m. FRUITS ORANGE -

(7)

(7)

EL Valle - 1000 m. NORTH - 9/18/46

3680 - PASSIFLORA - Flowers white -

(1)

3681 - ONCIDIUM CABAARAE SCHULTZ. G. & P.  
Rich CHOCOLATE BROWN, ~~with~~  
labellum SPREADING - BASE CHOCOLATE BROWN  
with FRONTAL LOBE Rich yellow - Callus  
with TOOTHED processes. Very HANDSOME -  
lateral lobes of lip yellow -

(1)

3682 - HILLIA TETRANTRA SW. - EPiphytic SHRUB -  
1 m. Fls. white -

(3)

3683 - Small TREE - 3 m. Fls. yellow

(4)

3684 - ODONTONEMA STRIATUM (NEES) KUNTZE  
HERB - 1 1/2 m. Fls. RED -

(1)



- 3685 - *RAZISEA SPICATA* OERST. ? - Stout Herb or  
SHRUB - 1 m. Fls. Red. (6) (6)
- 3686 - *WULFFIA BACCATA* (L.f.) KUNTZE ? - SCANDENT  
SHRUB - 3-4 m. Fls. yellow - Composite (7) (7)
- 3687 - *ACALYHA MACROSTACHYA* Jacq. SHRUB  
1 1/2 m. Fls. Rose Pink - (1)
- 3688 - *CENTROPORON RADICANS* (O. TZE.) MC VAUGH ? (6)
- 3689 - *TILLANDSIA* - epiphytic - (1)
- 3690 - *TILLANDSIA ANCEPS* Lodd. (2) (2)
- 3691 - *BURMANIA DONNELL SMITHII* Mez ex Donn. Sm. (1) (1)  
Scape Bracts Lagoon Red - Fls. yellow -
- 3692 - *STENHADENIA ALFARI* (Donn. Sm.) Woods. Tree  
4 m. Bull Horn Fruits - yellow - (3)
- 3693 - *ACETHEA ALLESTII* L.B. Smith. Epiphytic  
Scape Bracts Rose Pink - Fls. lavender (1)
- 3694 - *APHELANDRA AURANTIACA* (Schiedw.) Lindl.  
Herb - 50 cm. Fls. Orange - scarlet - (9)
- 3695 - *JACOBINIA AUREA* Hemsl. ? - SHRUB OR  
STOUT Herb - 1 1/2 m. Fls. BRIGHT  
yellow - (2)
- 3696 - *CENTROPORON NOTANS* Phil. & OERST.  
Herb - 1 1/2 m. Fls. Pink - (1)
- 3697 - *DREYMONIA* - BRANCHING epiphytic SHRUB  
OR WOODY Herb - 2 m. Fls. yellow  
with Red - BROWN MARKINGS - (4)  
(SEE PICKLE -)



3698 - *SCHAEFFERA ROBUSTA* A.C. SMITH - STOUT-  
ERECT EPiphytic SHRUB - 2 m. LEAVES  
COMPOUND - FRUIT PINK - (1) (7)

3699 - *XIPHIDIUM CAERULEUM* AUBL. (10) (7)

El Valle - Floor - 600 m. 9/18/46

3700 - *MIMOSAEEAE* - TREE - 20 m. Fls. white -  
FRAGRANT - COMMON - (7)

3701 - *SONOLOBUS Allenii* WOODSON - VINE - IN  
TRAILSIDE THICKETS - Fls. DARK GREEN - (2)

3702 - *STROTHANTHUS POLYRHIZOS* MART. ??  
PARASITIC SHRUB - VERY COMMON - Fls.  
RED-TIPPED ORANGE - (10) (10)

3703 - *CUPANIA* sp. - TREE - 20 m. - (10) (10)

3704 - *COMMELINACEAE* - HERB - 50 cm. FORMING  
COLONIES ALONG STREAM BANKS - Fls. white (8) (8)

El Valle - Floor - 600 m. 9/27/46

3705 - *CISSAMPelos TROPAEOLIFOLIA* DC. VINE,  
Fls. GREEN - (4)

El Valle - NORTH - 1000 m. 9/27/46

3706 - *SAURAVIA ZETEKIANA* STANDL. (*S. PAUCISERRATA* HAN)  
TREE - 30 m. (2)

RE-SEND 3413 & 3438



El Valle - 1000 m. 9/27/46 -

3707 - MARANTACEAE - 1 1/2 m. Fls. & BRACTS  
WHITE - MYROSMA? - (4)

Also seen  
very. camp  
pina

3708 - SYMPLEKIA GLOBULIFERA L.f. - TREE - 30 m.  
STOUT ROOTS <sup>OFTEN</sup> APROVED FROM LOWER 3 FT. OF  
TRUNK - Fls. BLOOD RED - LATEX YELLOW -  
KNOWN LOCALLY AS "CURILLO" ALSO  
ON CURRO CAMPANA & EL JEFÉ - RATHER  
COMMON - SEE 3413 - & 3438 (11) (1)

3709 - LAURACEAE - TREE - 12 m. (7) (1)

3710 - SMALL TREE - 5 m. Fls. WHITE - (9) (9)

3711 - TREE - 20 m. FRUITS RED - RUBIACEAE (7) (7)

3712 - HYDRANGEA OERSTEDII BRIDG. ? Climbing vine,  
resembling, in the JUVENILE STAGE FICUS REPENS,  
DEVELOPING STRONG LATERAL BRANCHES ON REACHING  
THE TOPS OF THE LARGEST TREES - STERILE Fls.  
PINK OR WHITE - (13) (1)

3713 - JACOBINIA AUREA HENRICH. SHRUB - 2 1/2 m.  
Fls. BRIGHT YELLOW - (4) (4)

3714 - NEUROLAENA LOBATA (L.) R. BR. - ERECT - STOUT  
HERB - 3 m. Fls. yellow - common on  
CUT OVER LAND ALONG TRAILS - (2) (2)

3715 - MAXILLARIA - (1)

3716 - MAXILLARIA VARIVARIEBIS BATHAM. Fls. TAN - (3)

3717 - BRASSIA ALLENII L. WMS. (1)



- 3718 - *COLUMNEA ARBUTA* - MERTON - FLs. SCARLET.  
GOLDEN yellow lines AT THE COROLLA DIVISIONS (2)
- 3719 - TREE - 30 m. EUPHORBIACEAE?  
FASCICULATA VAR. ? (7)
- 3720 - TILLANDSIA - SCAPE BRACTS RED - FLs. DEEP  
INDIGO BLUE - (4)
- 3721 - LORANTHACEAE - PARASITIC SHAWB - IN TOPS OF  
TREES - 30 m. BRANCHES LONG - TO 2 m.  
FRUITS BLUE - (5)
- 3722 - TREE - 25 m. FRUITS BLACK-purple. (7)
- 3723 - *GUZMANIA DISSITIFLORA* (ANDRE) L. B. SMITH -  
SCAPE BRACTS SPRING PINK - FLs. YELLOW  
TIPPED PALE GREEN - (4)
- 3724 - *HAMELIA PANAMENSIS* STANDL. SHrub OR STOUT  
HERB - 2 m. FLs. GOLDEN YELLOW - IN SECOND  
GROWTH IN CLEARINGS - (1)
- 3725 - TREE - 30 m. (16)
- 3726 - TREE - 30 m. FLs. WHITE (6)
- 3727 - TREE - 30 m. FLs. WHITE - (7)
- 3728 - TREE - 30 m. (12)
- 3729 - *MAISIA* (QUARARIBEA) AFF. *CORDATA*? (12)
- 3730 - *PEPEROMIA* - UNDERSIDES OF LEAVES PURPLE. (3)
- 3731 - *SWARTZIA DARIENENSIS* PITTIER - TREE - 10 m.  
FRUITS ORANGE - (10)
- 3732 - SMALL TREE - 3 m. FLs. TAN - (1)
- 3733 - TREE - 30 m. FLs. TAN - FRUITS RED - (9)



3734 - MICONIA - TREE - 12 m. SECOND GROWTH SCAR  
UNDERSIDES OF LEAVES TAN - (10) (1)

3735 - BUZMANIA NICARAGUENSIS MER & C.F. BAKER  
UNDERSIDES OF OLDER LEAVES LIKE LAVENDER -  
BASAL 1/2 OF NEW LEAVES ROSE RED - SCAPES  
BRACTS SHINING PINK - FLs. BRIGHT YELLOW -  
FLOWERING SCAPES VERY SHORT - ABOUT  
1/3 THE LEAVES - (1) (1)

3736 - PENTAGONIA <sup>DENNETH SMITHII?</sup> ABSOLUTELY NOT P. macrophylla  
TREE - 20 m. - FLs. WHITE, FRUITS <sup>rusty</sup> RED  
SEE ALSO FORMER CATH. NO. 2801 (7) (1)

3737 - SOLANDRA BRACHYCALYX KUNTZE - WOODY BRANCHING  
LIANA, GROWING IN TOPS OF TREES - FLs.  
YELLOW - (3)

3738 - DENDROPANAX - TREE - 30 m. FRUITS  
PURPLE - (9)

3739 - XYLOBIUM FLORATUM HANSH. (1)

3740 - MORANTIA SUBSESSILIS (BENTH.) D. SM. - HOOD  
BRANCHING EPiphytic SHRUB - FRUITS RED - (8) (8)

3741 - TREE - 30 m. MILKY LATEX - (10) (1)

3742 - POUROUMA ASPERA TRECU - TREE - 30 m.  
SAP BLACK - (7) (1)

3743 - LAURACEAE - TREE - 30 m. QUARARIBEA sp. (9) (1)

3744 - ORCHID - EPiphytic - FLs. BROWN - (1) (1)

3745 - STIGMATOPHANIA RACEMIFERA L. WMS. (1) (1)  
FLs. LIKE YELLOW



3746 - *APRIBA ASPERA* AUBL. TREE -  
30 m. (2)

3747 - TREE - 30 m. FRUITS purple - (1)

El Valle - CREST OF CARRO PAJITA - 1100 m.  
9/28/46 -

3748 - *STECOLEPIS ALLENII* STREYERMARK - EPIPHYTE  
HERB - Resembles *IRIS GERMANICA*. (1)

3749 - *VISMIA VIRIDIFLORA* DUCHASS. ?? - SMALL TREE,  
3 m. (7)

3750 - *PEPEROMIA* - CREEPING VINE ON TREE TRUNKS  
SMALL THICK LEAVES - (1)

3751 - EPIPHYTIC BROMELIAD - FOLIAGE SADDLE-LIKE -  
BRACTS RED-TIPPED WHITE - FLOWERS PURE  
WHITE - COMMON - (9)

3752 - *MADONIA* - TREE - 12 m. UNDERSIDES OF  
LEAVES RICH RED-BROWN - NOT SEEN  
PREVIOUSLY. (20)

3753 - TERRESTRIAL BROMELIAD - FORMING THICKETS -  
FOLIAGE SADDLE-LIKE - BRACTS RED-TIPPED  
PALE YELLOW - FLs. YELLOW - VERY  
COMMON - (4)

3754 - *PITCAIRNIA* - EPIPHYTIC - BRACTS PINK - (1)

3755 - *PITCAIRNIA* - TERRESTRIAL - 3 m. TALL -  
SCAPE VERY SLender - BEARING LONG  
SLender ROSE RED - FLs. ON THE  
BRANCHES. (1)



PALMORRHIZA SEE ALSO # 3789

3756 - ORCHID - TERRESTRIAL - FOLIAGE DARK GREEN - THIN, STRIPED SILVERY GREY - FLs. LIKE MINIATURE SOBRALIAS - pale yellow ①

3757 - CHUSIA - STOUT EPiphytic BRANCHING SHRUB - 3 m. FLs. WHITE - ⑤

3758 - RENEALMIA - 1 1/2 m. FRUITS RED - ①

3759 - CALATRA - BRACTS PAPER WHITE - FRUITS BLUE - FLs. pale yellow - ①

3760 - ERICACEAE - EPiphytic SHRUB - 75 cm. FLOWERS PENDENT ON A LONG THREAD-LIKE STEM. ①

3761 - MELASTOMACEAE - STOUT <sup>SPREADING</sup> TREE - 10 m. TRUNK 50 cm. DIAM. FLs. pale pink. ⑩

3762 - DENDROPANAX - TREE - 12 m. FLs. GREEN - ④

NUEVA GORDONA - O-M - 10/5/46

3763 - JACQUINIA PANAMENSIS LUNDH - SHRUB - 2-3 m. FLs. DEEP ORANGE - FRAGRANT - VERY COMMON ①

3764 - SOLANUM STAFORTHIANUM ANDR. - VINE - FLs. BLUE - FRUITS RED - ①

3765 - ANEMOPAEOMA ORBICULATUM (JACQ.) DC. SHRUBBY VINE - FLs. YELLOW - COMMON - ⑨

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CERRO TRINIDAD - PANAMA PROVINCE - 800 - 1000 m.  
OCT. 20, 1946 (ALSO SEE NOTES)

- 3766 - *Peperomia* - on moist boulders in deep shade - (6)
- 3767 - *Utricularia* - ON WET ROCK FACES OF MAIN PEAK - Flowers pale blue with yellow blotch at base of labellum - TRAPS VERY LARGE in relation to size of plant - LIKE A MINIATURE *U. ENRESI* - (1)
- 3768 - *Erythraea* sp. TERRESTRIAL, FORMING SMALL COLONIES IN HEAVY FOREST - BRACTS WHITE, FLs. creamy white - (4)
- 3769 - *Centropogon granulosus* Presl - MUCH BRANCHED AERIAL SHRUB - OR WOODY HERB - 3 m. FLs. PINK - (6)
- 3770 - ORCHID - FLs. TAN - *Epidenanum*? - (3)
- 3771 - TREE - 5 m. FRUITS yellow - (6)
- 3772 - *Epiphyllum* - GIANT LIANA TO SEVERAL HUNDRED FEET IN LENGTH - IN TREES OR ON ROCKS - FLOWERS NOCTURNAL - VERY LARGE - OUTER PETALS PINKISH TAN - INNER PETALS WHITE - (1)
- 3773 - TREE - 6 m. FRUITS ROSE PINK - RUBIACEAE (6)
- 3774 - *Cyrtanthus* - WOODY HERB - 75 cm. BRACTS purple - FRUITS BRIGHT BLUE - (1)
- 3775 - *Biophytum dendroides* (HBK.) DC. - WOODY HERB - FLs. pale pink - ON ROCK FACES OF MAIN PEAK - (4)



RENTON NORTH OF EL VALLE - 1000 m. 10/27/46  
(Fls. in coll. of GRAMM FAIRCHILD)

3776 - ONCIDIUM CABARRAE SCHOT.

PSEUDO-BULBS STENON - Sometimes spotted black -  
BECOMING LONGITUDINALLY RIDGED WITH AGE - SEPAL  
TAN - PETALS LIGHT BROWN - FRONTAL AND LATERAL  
LOBES OF LIP YELLOW - BASAL 1/2 BELOW <sup>callus</sup> ~~callus~~  
BROWN - CALLOS CHASTO - WHITE, SPOTTED  
LIGHT BROWN - A SMALL FL. FORM.

CARRO PASITA - EL VALLE - 1100 m. 10/27/46

3777 - EUZMANIA MUSAICA (LINDL.) NEES -  
PLANTS WITH BROAD ALTERNATE BANDS  
OF GREEN & PURPLE - SCALE BRACTS  
ORANGE - FL. PURE WHITE.

3778 - CENTROSOLENIA - NOT C. LINEATA -  
LARGE TERRESTRIAL PLANTS - FLOWERS DEEP  
RED-BROWN - (SEE PICKLE)

3779 - MAXILLARIA FULGENS (RHB.F.) L. WILDS.  
S. & P. BLOOD RED - LIP BRIGHT YELLOW

3780 - EPIDENDRUM - FLOWERS PALE GREENISH YELLOW -  
STENON PSEUDOBULBS PRESENT ALTHOUGH  
THEY DISAPPEAR IN DRYING - KEYS OUT TO  
E. PYBMAEUM IN SOME EPIDENDRUM, WHICH  
IT IS NOT - PROBABLY NEW - CHECK -  
(SEE PICKLE)

3781 - ERECT - VASE-LIKE DRY TANK BROWNING -  
COMMON TO EDGES OF GRASSY RIDGE - SOME  
ON TREE & ROCK FACES - CARRO TRINIDAD



3782 - ERICACEAE - SPHYROSPERMUM? - CREEPING  
WOODY PLANTS - EPITHYTIC - FLOWERS PINK.  
PURPLE - FRUITS PURE WHITE - (SEE PICKLE) ③

3783 - ORCHID - TERRESTRIAL - AGREES FAIRLY WELL WITH  
THE SPECIMEN OF ERYTHRODES SECUNDA AMES IN  
MY HERBARIUM - ①

3784 - VOYRIA ALKANII STEYERMARK - SAPROPHYTIC  
IN DENSE SHADE - FL. ROSE PINK - ①

3785 - KEYS OUT TO EPIDENDRUM CENDROPETALUM ROBB. F.  
IDENTICAL EXCEPTING FOR color with plants identified  
BY WILLIAMS AS E. SCHUMANNIANUM. SEPAL &  
PETAL LIKE GREEN - LIP PURE WHITE - ANOTHER  
IDENTICAL SPECIMEN SEEN IN WALTER COPE'S  
COLLECTION FROM CARRO CAMPANA - ①

3786 - RUBIACEAE COCCOCYPSELUM HIRSUTUM BATH.  
- CREEPING HERB - IN HIGHLAND CHARRINAS  
FRUITS BRIGHT BLUE - CONSPICUOUS - FL. BLUE ⑥

3787 - PALMORCHIS ?? - (POSONIA (TRIPHORA))  
- NOT IN FLORA - LEAVES  
STRIPED SILVERY GREY - FL. CREAM YELLOW -  
LIP STRIPED LAVENDER - (SEE PICKLE) TERRESTRIAL ①  
SEE ALSO NO. 3756 -

3788 - ACANTHACEAE - SHrub - 1 M. FL. PINK - ①

HILLS SOUTH OF EL VALLE - 7000 M. 10/27/40

3789 - FICUS VELUTINA WILLO. - SPREADING TREE -  
20 M. (I HAVE TWO FICUS SPECIMENS IN THE  
HERBARIUM WHICH HAVE BOTH BEEN DETERMINED AS  
F. VELUTINA - THEY ARE NEARLY IDENTICAL IN EVERY  
THING BUT FRUITS, WHICH ARE VERY DISTINCT.  
SEE NOS. 1837 AND 2525 - THE LAST OF WHICH  
AGREES ENTIRELY WITH THE PRESENT SPECIMENS - ⑤



3790 - *SOBRALIA LEUCOKANTHA* - RCHB.F. - ON STEEP  
VOLCANIC ASH BANKS - S. & P. PURE WHITE  
LIP WHITE, WITH SULPHUR-YELLOW INNER  
THROAT - HORN'S OF COLUMN SULPHUR YELLOW - (1)  
(SEE COLUMNS IN PICKLE)

VICINITY OF CARRO Jefe - PANAMA PROVINCE 7000 ft.  
(Flowers in collection of MR. ROLAND JONES - BALBOA, C.Z.  
10/28/46)

3791 - *EULOPHIA*? - TERRESTRIAL - LONG-NARROW BLADE-LIKE  
FOLIAGE - SLANDER BAZEL PSEUDO-BULB - SLANDER RACEME  
OF 6-8 FLESHY FLOWERS. S. & P. PALE GREEN.  
LIP WHITE, WITH TRANSVERSE PURPLE STRIPES.  
SEE ALSO NO. 3562 - (PICKLE ONLY) (1) (C)  
LOOK UP *EULOPHIA FILICOIDES* -  
SEE ALSO *OFOSTYLIS* AMES ORCH. FASC. VII p. 58  
WEST INDIES - SEE *CYRTOPORUM CRISTATUM*!  
AMES. ORCH. FASC. VII p. 62

CERRO PASITA - EL VALLE - 1100 M. 10/27/46

3792 - *MAXILLARIA REPENS* L. WMS. (4)  
SEE PLATE AMES. ORCH. Soc. Bull. FEB. 1, 1942

3793 - *PLEUROTOMIS* - (MASDEVALLIA??) EPIPHYTIC -  
FLOWERS LAVENDER (PICKLE ONLY) - - (1)

3794 - *BENTIANACEAE* - SAPROPHYTIC - FLS. DEEP YELLOW (C)  
(PICKLE ONLY)

3795 - *LEPTANES*? - SAPROPHYTIC - HERBS -  
(PICKLE ONLY) (1)

3796 - *MASDEVALLIA* - NOT IN FLORA - SINGLE  
DAMAGED FLOWER IN PICKLE - (1)



3797 - ORCHID - Fls. white - epiphytic -  
3797 (Pickle) only

(1)

ISOCHILUS - SEE FL. JAM. ORCH. pl. 13

NUEVA GORDONA - 0 mi. Panama Province 10/28/46

3798

3798 - ACANTHOCERCUS pentandrus (L.) Britt. & Rose -  
Fls. white - nocturnal - in thickets above  
sea beaches - common -

(1)

Carro Pajita - El Valle de Arzon - 1100 m. 10/27/46

3799

3799 - Epiphytic Bromeliad - Scape bracts pale green  
throughout - tank leaves green - bracts  
filled with transparent jelly -

(1)

El Valle - Trail to Headwaters of Rio Santa Ana  
900 m. Nov. 10, 1946 - collected by Harry Dunn

3800

3800 - CYCNOCHES - very stout plants, pseudo-  
bulbs up to 7 cm. in diameter & 30 cm.  
in height - average about 4 cm. diam. & 18 cm.  
tall - bearing broad - plicate leaves clothed the  
entire bulb - very strongly veined dark green  
toward the basal clasping portion - upper  
3-4 leaf axils bearing clustered pistillate  
inflorescences, sometimes with the addition  
of a pair of the staminate form. Pistillate  
flowers fleshy - sepals & petals yellowish-  
green obscurely veined darker green - lip greenish  
yellow - shading to green on the pointed tip.  
Narrow semi-circular chest dull brown -

continued

(over)



3800 - (CONTINUED) FLOWERS ADOING GREENISH  
YELLOW - WITH BROWN MARKINGS TO THE SEGMENTS.

3800

STAMINATE FLOWERS NORMALLY PRODUCED IN A LONG  
PENDULOUS CHAIN FROM THE LOWER LEAF AXIS.

SEALS & PETALS PALE YELLOWISH GREEN - OBSCURELY  
VEINED DARKER GREEN - LIP WHITE WITH PROMINENT  
TERMINATE TERMINATION & LATERAL MARKING TOOTH  
PROCESSES. BASE OF LIP UNDER COLUMN WITH  
A GREEN BLOTCH & TWO GREAT PALE GREEN  
PROCESSES - UPPER SEPAL - PETALS & COLUMN  
MINUTELY SPOTTED - RED-BROWN - (SEE PICKLE)

VICINITY OF DAVID - CHIRIQUI PROVINCE - 100 MI.

(PLANTS FLOWERED IN TAMBOA NOV. 12, 1946)

3801

3801 - *CATHEPA SKINNERI* - SEALS & PETALS LILAC (RICH.) - ONLY  
PARTIALLY OPENING - LIP TIMIDLY ROLLED ABOUT THE COLUMN -  
CONSIDERABLY REDUCED IN SIZE - APEX OF LIP WHEN OPENED  
FOR INSPECTION PINK PURPLE SHADING THROUGH PINK  
TO BASE OF LOWER COLUMN, WHICH IS WHITE - (2)  
(SEE PICKLE)

EL VALLE - CARRO PATITA - 1000 MI. -

(FLOWERED IN TAMBOA - NOV. 18, 1946)

3802

3802 - *SPIRANTHES NAUARENSIS* (AMES) L. WMS. - TERRESTRIAL -  
IN HEAVY SHADE - SCAPE BRACTS CORAL RED - UPPER  
SEPAL ZINC ORANGE - LOWER SEALS, PETALS & LIP  
ABOUT ORANGE BUFF. (SEE PICKLE) (1)

PACIFIC LOWLANDS - EXACT LOCALITY UNKNOWN

(PLANTS PURCHASED FROM COLLECTOR - FLOWERED TAMBOA NOV. 12, 1946)

3803

3803 - *CATHEPA SKINNERI* - S & P. NOT FULLY EXPANDED - LIP TIMIDLY  
ROLLED OVER COLUMN - FRONTAL LOBE OF LIP PINK PURPLE -  
SHADING TO NEARLY PURE WHITE IN CENTRAL INNER THROAT -



3803 - (CONTINUED) BASAL 1/3 UNDER COLUMN VERY NEAR  
BORDEAUX -

(1)

3803

El Valle - NORTH - 1000 m. (Loma del Tigre) 11/16/46

<sup>3404</sup>  
3804 - *BRASSIA Aikenii* - LIZUMU. S. & P. OLIVE OCHER - SHADING  
TO CINNABON BUFF AT THE BASE - PETALS WITH A SMALL  
BASAL TRIANGULAR BARIMUM yellow spot. Lip BARIMUM  
yellow WITH A NARROW BAND OF IRREGULAR MURKADO  
BROWN SPOTS BELOW CREST - CREST WHITE, WITH  
A DEEP LONGITUDINAL CLEFT WHICH IS COLORED STRONTIUM  
yellow. ANTHUR CAP WAX yellow - WITH A MURKADO  
BROWN BEAK - COLUMN WHITE, WITH TWO LATERAL BLOTCHES  
OF MURKADO BROWN - FRAGRANT - (SEE PICKLE) (1)

3805

3805 - Small TREE - 5 m. FRUITS Red -

(3)

3806

3806 - *ARDISIA PITTIERI* Mez - Small TREE - in Heavy Forest  
3 m. Fls. pink - in pendulous panicles - STAMENS yellow -  
FRUIT BRIGHT Red -

(3)

3807

3807 - TREE - TEN METERS - FRUITS yellow

(2)

3808

3808 - *Pleurothallis* - NEAR *P. Rowleei*, BUT DIFFERING VERY  
CONSIDERABLY IN THE FORM OF THE PINKS. FLOWERS NEARLY  
RASIN purple - SEPALs HIRSUITE - PLANTS VARIABLE IN  
SIZE & LEAF SHAPE - Flower clusters INVARIABLY  
CARRIED ON UNDER-SIDE OF LEAF - (SEE PICKLE) (7)

(7)

3809

3809 - *ONCIDIUM CRISTA-GALLI* - RANB. F. - (PICKLE ONLY)

(1)

3810

3810 - *Pleurothallis ROTUNDATA* SCHWEINF. - UNDERSIDES OF LEAVES OFTEN  
purple - SEPALs ROSE Red-TIPPED WAX yellow - PETALS Pale  
yellow - TIPPED LIKE BROWN - HIRSUITE - Lip Pale yellow AT  
BASE - SHADING TO ROSE Red - MAX yellow - MARKINGS OF S. & P.  
DENSELY MINUTE HIRSUITE - (SEE PICKLE) (1)

(1)



WEACKLEI SCHLTR.

3811- SCAPHYLOTTIS - S. & P. WHITE - Lip WHITE, WITH FAINT LATERAL  
PURPLE LINES - Column purple - Pollinia 4 - (SEE PICKLE) ①

3812- ISOCHILUS - SEPALS PURPLE - SHADING TO CREAM YELLOW  
AT THE TIPS - PETALS GREENISH YELLOW - TRANSLUCENT -  
Lip TRANSLUCENT - GREENISH YELLOW - Pollinia 4 - (SEE PICKLE) ②

3813- MAXILLARIA - VARIABILIS - BATEM. - S. & P. PALE GREENISH  
YELLOW - INNER Lip MAROON WITH GREENISH YELLOW MARGIN  
TO THE FRONTAL LOBE - (SEE PICKLE) ①

3814- PLEUROTALLIS - NEAR P. RUSCIFOLIA - R. BR. SEPALS WHITE -  
PETALS pale yellow - Lip yellow - (SEE PICKLE) ①

3815- PLEUROTALLIS COBRAEFORMIS L. WMS. - UPPER SEPAL pale  
TRANSLUCENT GREEN - HEAVILY SPOTTED MAROON - LOWER SEPAL  
RED - WITH BROAD <sup>LONGITUDINAL</sup> CENTRAL pale GREEN BAND - & IRRREGULAR  
BLOTCHES UNDER Lip - PETALS MAROON - THE MARGINS <sup>maroon</sup> <sup>ulate</sup> <sup>ultra</sup>  
Lip MAROON - Column MAROON - (SEE PICKLE) ①

3816- PLEUROTALLIS - PTEROCAULIS L. WMS. - Fls. purple - (SEE PICKLE) ①

3817- MAXILLARIA ENDRESII VAR. ANGSTISEGMENTA (A. & S.) SCHWEIN  
OUTER SURFACES OF S. & P. WHITE - INNER SURFACES OF  
SEPALS ~~yellow~~ yellow SHADING TO WHITE AT BASE -  
INNER petals white, INNER Lip BRIGHT YELLOW, WITH  
WHITE MARGIN TO THE FRONTAL LOBE. INNER  $\frac{1}{3}$  BELOW  
column white, STRIPED <sup>RICH</sup> RED - BROWN - Column RICH  
RED - BROWN - Apical  $\frac{1}{3}$  white - ANTHOR CAP TAN ⑤



El Valle - Upper Rio Anton - 650 m. 11/16/46

3818 - TREE - 25 m. LUM'S SQUARE TREE -  
← QUARARIBEA AFF. PLATYPHYLLA Pitt. & O. Sm.

3819 - INDA - SMALL TREE - 4 m. FLG. WHITE -  
FAIRLY COMMON IN ROADSIDE THICKETS -

Region South of El Valle - Rio MATA ACHONADO  
200 m. 11/16/46

3820 - BLERIA - <sup>TUBEROSA (L.) AMES</sup>  
(SEE PICKLE)

VICINITY OF JUAN DIAZ - PANAMA PROVINCE - 50 m. 11/12/46  
(Flowers in Pedro Zúñiga in collection of Walter Coy)

3821 - MAXILLARIA - <sup>CAMARIDII</sup> S. & P. pure white - Lip rich yellow -  
MARRINGO WHITE, WITH TRANSVERSE BARS OF RED-BROWN -  
Red-Brown blotch at base of column - Flowers  
usually produced as a single pair - (SEE PICKLE)

3822

3822 - MAXILLARIA - S. & P. cream - Lip very pale  
yellow - 3 pairs of flowers produced simultaneously  
(SEE PICKLE)



RIO NAVARRO - FORESTS ABOVE OROSI - COSTA RICA  
5000 FT. - Flowered in the collection of MR. CH. LANKESTER  
LAS CONCAVAS - CARTAGO - COSTA RICA - 11/26/46

- 3823 - *Pleurothallis grandis* Rolfe -  
3824 - *Pleurothallis coccolobops* ?? - Rolfe ??  
3825 - *Dichaea ciliolare* Rolfe  
3826 - *Scaphosepalum anchoriferum* Rolfe  
3827 - *Pleurothallis* sp. possibly new -  
3828 - *Stelis cascariensis* Wund. near *S. leucopoda*  
3829 - *Pescatorea cerina* - very large flowered form -  
3830 - *Epidanthus* near *E. paranthus*  
3831 - *Oncidium pauciflorum* Ames - Bulbs & leaves as *Oncid. ochmatochilum*.  
3832 - *Lochnera lunifera* ?? -  
3833 - *Pleurothallis* sp. fls. yellow  
3834 - *Pleurothallis palliolata* -  
3835 - *Sigmatostichis hymenantha*  
3836 - *Sistatoglossum lacunatum* (Platythallis?)  
3837 - *Sobralia* - dried flowers - color rose purple  
3838 - *Odontoglossum convularioides* - fls. white  
3839 - *Oncidium cheiropterum* -  
3840 - *Physosiphon* sp.  
3841 - *Pleurothallis Standleyi*

VICINITY OF LAS CONCAVAS - CARTAGO - COSTA RICA  
Flowered in the collection of MR. CH. LANKESTER  
11/26/46

- 3842 - *Lycaste leucantha* -  
3843 - *Epidendrum criniferum* Rolfe (keys out to *sp.*)  
3844 - *Oncidium stenotes* -  
3845 - *Lepanthes turbinata* (see illus. WASC. Oct.)  
3846 - *Epidendrum brassavolae*  
3847 - *Lycaste brevispatha*  
3848 - *Epidendrum difforme* -



REGION ABOVE EMPALME - 6000 FT. COSTA RICA  
Flowered in the collection of C. H. LANKESTER  
LAS CONCAVAS - CARTAGO - 11/26/46

3849 - *Lepanthes* - growing on cave - may be new.

VICINITY OF ESTRELLA - 5000 FT. COSTA RICA  
Flowered in the collection of MR. C. H. LANKESTER  
LAS CONCAVAS - CARTAGO - COSTA RICA 11/26/46

3850 - *Trichocentrum PFAVii* -

3851 - *Maxillaria coccineum* - fls. orange -

3852 - *Reichenbachia estrillensis* - this should be removed -

VICINITY OF CARILLO - 1000 FT. COSTA RICA  
Flowered AT LAS CONCAVAS - collection of MR. C. H.  
LANKESTER - 11/26/46

3853 - *Cryptochoranthus* - fls. creamy white -

VICINITY OF OROSI - COSTA RICA - 4500 FT.  
11/26/46

Flowered in the collection of MR. C. H. LANKESTER  
LAS CONCAVAS -

3854 - *Restrepia lankesteri* - ANES -

PACIFIC COAST LOWLANDS - COSTA RICA  
Flowered AT LAS CONCAVAS - MR. C. H. LANKESTER  
11/26/46

3855 - *Laelia rubescens* -

3856 - *Phreatophila longissima* - fls. yellow



ONK FOREST MONK PAN AMERICAN HIGHWAY  
TO EL GENERAL - 7000 FT. FLOWERS AT LAS  
CONCEVAS IN COLL. MR. C. H. LANKESTER 11/26/46

3857 - MAXILLARIA sp. Fls. ROSE pink - common

VICINITY OF CACHI - REUNTAZON VALLEY - <sup>Costa Rica</sup> COSTA RICA  
4000 FT. FLOWERS AT LAS CONCEVAS - COLL.  
MR. C. H. LANKESTER - 11/26/46

3858 - PLEUROTALLIS SCANDENS - Fls. MAROON -

3859 - BIGNATOSTYLIS COSTARICENSIS -

ALHOMERO - VICINITY OF TREE RIDES - 6000 FT. <sup>Costa Rica</sup> COSTA RICA  
FLOWERS AT LAS CONCEVAS - COLL. MR. C. H. LANKESTER  
11/26/46

3860 - MASDEVALLIA E CORNUTA

3861 - MILTONIA ENDRESII

3862 - MASDEVALLIA sp. Fls. yellow

3863 - PLEUROTALLIS sp. Fls. purple -

3864 - MAXILLARIA sp.

3865 - SCAPHYLOTTIS sp.

CERRO UYUCA - DEPARTAMENTO DE MORAZAN - <sup>Honduras</sup> HONDURAS  
6000 FT. CLOUD FOREST - WITH PAUL C. STANLEY  
& LOUIS O'WILLIAMS - 12/5/46

3866 - EPIDENDRUM sp. Fls. GREEN - (SEE picture) ①

3867 - EPIDENDRUM aff. E. RAMOSUM - Fls. <sup>greenish</sup> pale greenish  
yellow - (SEE picture) ①

3868 - ARPOPHYLLUM ALPINUM? Fls. ROSE pink - <sup>common</sup> common  
(SEE picture) ②



- 3869 - *Pleuronotallis* - fls. pale yellow (see pickle)  
 3870 - *Odontostemon polakellum* - ON OAKS - 5000 FT.  
 fls. white - (see pickle)

PENA BLANCA - HEADWATERS OF RIO LINDO - DEPARTAMENTO  
 DE YORO - HONDURAS - DEC. 10, 1946 - WITH MARK  
 TRATTON -

- 3871 - *Pyramis* Hook. *Epipendrum*? - S.P. TAN - lip WHITE, with faintest lavender  
 mid lobe - CREEPING HABIT - COMMON - (see pickle)

- 3872 - *Pleuronotallis* - fls. TAN - COMMON - (see pickle)

- 3873 - *Trasdevallia simula* - fls. translucent - heavily spotted  
 red-brown - (see pickle) - COMMON

- 3874 - *Maxillaria Friedrichii* Rehb. F. - S.P. yellow - lip  
 red-brown - COMMON - (see pickle)

- 3875 - *Pleuronotallis* - PROBABLY IDENTICAL WITH NO. 3872 -  
 (see pickle) fls. TAN - COMMON -

- 3876 - *Pleuronotallis* ?? - fls. yellow - (see pickle) rare -

- 3877 - *Epipendrum Boothii* (Cinch.) L. Wms (check) ~~*polakellum*~~ - fls. straw yellow -  
 (see pickle) VERY COMMON -

- 3878 - *Epipendrum* ~~*ANCEPS*~~ *ANCEPS* JACQ. - with NOT run out in "ANCEPS"  
*Epipendrum* - " S.P. TAN - lip pinkish tan -  
 UNDER SURFACES OF FOLIAGE purple - COMMON -  
 (see pickle -)

- 3879 - *Maxillaria* - S.P. cream white - lip BRIMAT  
 ORANGE - (see pickle)



3880 - TILLANDSIA - EPiphytic -  
3881 - TILLANDSIA - EPiphytic -

CARRO UYUCA - DEPARTAMENTO DE MORAZAN - HONDURAS  
6000 FT. CLOUD FOREST - WITH PAUL C. STANLEY & LOUIS  
O. WILKINS - 12/5/46

3882 - DESNERIACEAE - SHRUB - 1 M. FL. SCARLET. (4)  
3883 - MYRSINACEAE - SHRUB - 2 M. FL. pale pink. (2)

RIO YEGUARE - VICINITY OF CASITAS, ABOUT 800<sup>m</sup>  
DEPARTAMENTO DEL PARAISO - HONDURAS - 12/4/46 -  
WITH PAUL C. STANLEY & LOUIS O. WILKINS -

- 3884 - COMPOSITAE - HERB - FL. WHITE - (1)  
3885 - COMPOSITE - WOODY HERB - 2 M. - (1)  
3886 - LANTIA RUBESCENS - (2)  
3887 - QUERCUS - TREE - 20 M. (3)  
3888 - METASTOMACEAE - SHRUB - 1 1/2 M. (2)  
3889 - SERTANIA TAILLONIAE STANLEY - WOODY  
VINE - (3)  
3890 - LEROUXIA - HERB - FL. ORANGE - COMMON IN  
PASTURES - (1)  
3891 - LEROUXIA - HERB - FL. YELLOW - COMMON (1)  
3892 - EUPHORBIA - WEEDY HERB - (1)  
3893 - LEROUXIA - HERB - FL. ORANGE - COMMON - (2)  
3894 - MINORA - WOODY HERB - 2 M. FL. PINK -  
COMMON - (3)  
3895 - TURNERA - HERB - FL. ORANGE - COMMON - (2)  
3896 - ASTER SPINOSUS ? - WOODY HERB - ON ROCKS  
IN STREAM COURSES - FL. WHITE WITH YELLOW  
CENTERS - COMMON - (2)



CFSDW - *Wentworth* - Fb. Op. No. 2



Cerro UYUCA - DEPARTAMENTO DE MORAZAN - HONDURAS -  
5000 FT. PINE-OAK CLEARINGS - 12/5/46 - with  
DR. PAUL C. STANLEY & LOUIS O. WILLIAMS -

- 3897 - *DISTYLIUM HONDURENSE* STANLEY & WILLIAMS.  
TREE - 15 m. DET. STANLEY - (2)
- 3898 - <sup>MELASTOMACEAE</sup> WOODY HERB - 1 1/2 m. Fl. purple - (3)
- 3899 - MELASTOMACEAE - WOODY HERB - 1 1/2 m. Fl. pink (1)
- 3900 - *PINDICULA CRENILoba* - Fl. WHITE - (1)
- 3901 - *CASTILLEJA* - HERB - 1 m. (1)
- 3902 - *Linum* - Fl. yellow - (1)
- 3903 - *VALERIANA SOROIFOLIA* - (2)
- 3904 - COMPOSITE - WOODY HERB - 1 1/2 m. Fl. yellow. (2)
- 3905 - TREE - 20 m. 6000 FT. Cloud Forest. (2)
- 3906 - COMPOSITE - WOODY HERB - 2 m. Fl. white - (1)
- 3907 - *SALVIA* - Fl. Blue - common - (3)
- 3908 - *SALVIA* - Fl. Rose purple - (3)
- 3909 - *SALVIA* - Fl. Red - (1)
- 3910 - *CESTRUM AURANTIFOLIUM* - SHrub - 1 1/2 m.  
Fl. ORANGE - FRUIT WHITE - common (2)
- 3911 - *SALVIA* - Fl. pale lavender - (2)
- 3912 - *EUPATORIUM* - WOODY HERB - 2 m. Fl.  
pale pink - (4)

Rio TABAZARA - VERAGUAS PROVINCE - PANAMA - 100 m.  
PLANTS FLOWERING IN BAMBOO 12/20/46

- 3913 - *CYCNOCHES VENTRICOSUM* - MALE FLOWERS -  
(SEE picture) ON PLANT ABOUT 8" HIGH - SUR-  
TO FIREHILL - Small size of flower believed  
TO BE CORRELATED WITH SIZE OF PLANT - (1)
- 3914 - *CYCNOCHES VENTRICOSUM* - MALE FLOWERS -  
SOMEWHAT LARGER IN SIZE THAN 3913, BUT  
OTHERWISE IDENTICAL - (SEE picture) PLANT NO. 1 (1)



3915 - *CYCNOCHES VENTRICOSUM* - HERMAPHRODITIC FLOWERS  
(SEE PICKLE) PLANT. NO. 2 (1) (1)

EL VALLE DE ANTON - 600 M.

PLANT FLOWERS IN TAMBOCA 12/20/46

3916 - *CATABETUM SCURRA* - (SEE PICKLE) (1)

3917 - *EPIDENDRUM CONDESTUM* ROLFE - (SEE PICKLE) (1)

VICINITY OF LA PINTADA - COCLE PROVINCE - 150 M.  
PLANT FLOWERS IN TAMBOCA 12/20/46

3918 - *ONCIDIUM AMPLIATUM* - (SEE PICKLE) (1)

3919 - *EPIDENDRUM STANTFORDIANUM* - (SEE PICKLE) (1)

EL VALLE DE ANTON - 600 M. COCLE PROVINCE  
FLOWERS AT TAMBOCA 12/26/46

3920 - *ORNITHOGYNOPSIS* - S. & P. WHITE (SEE PICKLE) (1)

LEAF KNOWN - COCHLEARIFORMIS C. SCHWEINF.

REGION NORTH OF EL VALLE - LOMA DEL TIPORE  
1000 M. FLOWERS AT TAMBOCA 12/26/46

3921 - *MAXILLARIA ALLENII* L. WILSON. FLR. PALE  
YELLOW - (SEE PICKLE) (2)

3922 - *EPIDENDRUM CRINITIFLORUM* REHB. F. (SEE PICKLE) (1)

3923 - *PLEUROTHALLIS* AFF. *P. POWELLII* - (SEE PICKLE) (1)

3924 - *EPIDENDRUM NOCTURNUM* - VERY STRIKING  
VARIATION FROM NORMAL - COULD BE DESCRIBED AS  
NEW SUB-SPECIES. FOLIAGE PURPLE ON UNDER  
SURFACES -



El Valle - Floor - 600 m.  
Flowered at TAMBOA - 12/26/46

3925 - EPIDENDRUM LOCKHARTIODES SCHULT.  
Pls. GREEN - (see picture) TURNING  
TAN WITH AGE - (5)

VICINITY OF TAMBOA, C. Z. 12/31/46

3926 - NOTYLIA pentactene Rehb. F. (see picture) (1)  
Sepals pale green - petals near white, with  
two minute orange cream spots - lip  
pure white

Rio Lindo - Honduras - Flowered at TAMBOA 1/5/47

3927 - Scaphytotis - S. & P. greenish white - lip white -  
column tinged purple (see picture) (1)

3928 - Hexadesmia (Scaphytotis?) S. & P. pale green - obscurely  
striped greenish tan - lip white, with a broad pale  
yellow median stripe - anther cap purple -  
(see picture) (2)

VICINITY OF EL ZAMORANO - Honduras - Flowered at  
TAMBOA 1/5/47

3929 - Cattleya aurantiaca - Sepals bright orange - Petals  
bright orange with minute red dots - lip bright  
orange with red spots. (see picture) (1)



VICINITY OF TAMBOA, C. Z. 12/20/46 - collected by  
Dorothy O. Allen -

3930 - PASSIFLORA SEEMANNI Wils. - Fls. Blue - (3)

3931 - Low-lying - woody liana - Fls. Pink - (2)

Trail to

Cerro Pasita - Hills north of El Valle - ~~1200 m.~~ <sup>500</sup>  
1/2/47 - with Graham Fairchild

3932 - APTERANTHA - SHrub - 1 1/2 m. Fls. pink - (4)

Crest of Cerro Pasita - Hills north of El Valle  
1200 m 1/2/47 - with Graham Fairchild -

3933 - SPIRANTHUS NAUFRANSIS (Aubl.) L. Wats. (5) (1)  
(see pickle)

3934 - Selaginella - Epiphytic - (1)

3935 - Schlotheimia - Fls. like greenish white,  
faintly striped lavender (see pickle) (4)

3936 - Cyrtanthus - SHrub - 1 1/2 m. Bracts like pink -  
Fls. like pinkish lavender - (3)

3937 - Lycopodium - 2 1/2 m. tall - in thin forest (4) (4)

3938 - Stenolopis Allenii Steyermark - (see pickle) (1)

3939 - Lockhartia - Fls. yellow - (see pickle) (1)

3940 - ~~Stenolopis~~ <sup>Spiranthes</sup> ~~Stenolopis~~ <sup>Funkiana?</sup> ~~Stenolopis~~ <sup>Turkey</sup> - (see pickle) (1)

3941 - Maxillaria Allenii L. Wats. S. & P. like yellow -  
lip reddish tan - (1)



3942 - MAXILLARIA - AFF. CATHARTIDIVUM RHINOCHLOREUM -  
S + P. wine red - tipped & margined yellow -  
lip rich orange - (See pickle) (3) (3)

3943 - EPIDENDRUM - AFF. E. JAMAICENSE - Fls. green - (2)  
(See pickle)

3944 - SCAPHYLOTTIS - GIANT SPECIES - TO 3 FT. TALL -  
S + P. pale greenish lavender - lip white, with  
central yellow median band - (See pickle) (7) (1)

3945 - MAXILLARIA - S + P. pale pinkish tan - lip red-brown -  
(See pickle) (4)

3946 - MAXILLARIA REPENS L. WILSON. (Pickle only) (1)

3947 - PRASCOTIA CHIRANTHA ?? - (Pickle only) Epiphytic. (1)

3948 - PLEUROTHALLIS - PROBABLY P. OCHYPTROSTACHYS SUBLTH.  
(Pickle only) Fls. white. (1)

3949 - POLYSTACHYA SP. - Fls. greenish yellow -  
(Pickle only) (1)

3950 - EPIPHYTIC ORCHID - Fls. <sup>pale</sup> green.

3951 - LYANTHES ? - Fls. tan - (Pickle only) (1)

3952 - PLEUROTHALLIS (NABOWALLIS) ? - Fls. purple - (Pickle only) (1)  
Same as NO. 3793

Floor of El Valle - 600 m. collected by DOROTHY  
Allen - 1/2/46

3953 - TRICHOCESTRUM - sp. (Pickle only) (1)



3954 - *Planchonanthus muricata* - SCOTT, Fls. yellow -  
common - (Pickle only) ① ②

Cerro Patita - Hills north of El Valle - 1200 m.  
1/2/47 - with William Fairchild -

3955 - Melastomaceae - Stout trees - common to El Fin  
Forest - 3-4 m. Fls. white - ⑥

3956 - Melastomaceae - Stout spreading tree - 3-6 m.  
Common to El Fin Forest - Fls. pink -  
Stamens yellow - ⑤

3957 - Bromeliad - Undersurface of leaves lavender -  
Spike bracts scarlet - Fls. pale yellow - ①

3958 - Bromeliad - Terrestrial - Flower spikes - 2 m tall.  
Flowers red - common - ①

El Valle Chiquito - 600 m. Flowers in 1947  
Action in the collection of Mr. Harry Dunn 1/7/47

3959 - *Bomarea quinque nervis* - Ruiz & Pavon -  
Flowers yellow - Spotted - Red-brown -  
(See pickle) ①

Cerro Ampara - 800 m. 1/7/47 - with William  
Fairchild -

3960 - *Clusia* - tree - 10 m. Fls. pinkish white,  
FRAGRANT - ④ ⑤

3961 - *Planchonanthus* - Fls. red-brown - (See pickle) ①



- 3962 - ERICACEAE - GIANT BRANCHING EPiphytic SHrub -  
3-4 m. Fls. pink - (6)
- 3963 - PLEUROTHALLIS - Fls. purple - (see picture) (1)
- 3964 - CALATHEA - BRacts purple - Fls. greenish  
yellow - 1 1/2 m. (1)
- 3965 - SHrub - 2 m. Fls. dull purple - (2)
- 3966 - LEOCKILOPS - ? Fls. Brown - (see picture) (1)
- 3967 - LYCOPodium - EPiphytic - (1)
- 3968 - MAXILLARIA Allenii L. Wms. S. & P. Straw yellow -  
lip red - orange - (5)
- 3969 - PLEUROTHALLIS aff. P. COCONILOPS - Fls. translucent  
marbled red - brown - (see picture) (1)
- 3970 - POOCARPUS Allenii - Tree - 25 m. Very common  
Name reported as "ALFAJILLO" (6)
- 3971 - EPIDENDRUM RIVINUM Jacq. Fls. greenish  
yellow - (see picture) (1)
- 3972 - GIANT THORNY Liana - (CACTACEAE?) Fruits orange (1)
- 3973 - MAXILLARIA - Fls. Tan - (see picture) (2)
- 3974 - ASCLEPIAS - Vine - Fls. pale yellow - (2)
- 3975 - PLEUROTHALLIS - S. & P. white - lip white,  
Frontal lobe purple with central white  
spot. Anther cap purple - (see picture) (1)



- 3976 - *Cyclanthos* - Tupper's hill ①  
 3977 - *Prescottia* *Staelhovei* (Sw.) Hieron. Tupper's hill ①  
 3978 - ~~*Prescottia*~~ - *Epiphyta* - in nearby forest - ①  
*Spiranthes*?

Rio TABAZARA - VERAGUAS PROVINCE - 100 m.  
 Flowered in STAMBOA 1/11/47

- 3979 - *Cyclanthos* *ventricosus* - white fls.  
 Produced from plant NO. 2 - (see pickle) ①

Cerro PATITA - Hills NORTH of La VALE - 1200 m.  
 Flowered at STAMBOA 1/12/47

- 3980 - *Scaphyloctis* *bilineata* (Roth. f.) Baker.  
 (see pickle) 3 or 4 pale pinkish white  
 columns & anthers of lavender - ①

Rio LINDO - HONDURAS -  
 Flowered in STAMBOA 1/12/47

- 3981 - *Dichaea* - fls. translucent - spots pale ①  
 pinkish lavender - anthers of purple - (see pickle)

Cerro CHUPAN - 800 m. Flowered in STAMBOA  
 1/12/47

- 3982 - *Scaphyloctis* - fls. translucent - striped  
 lavender - see also NO. 3935 - (see pickle) ①

- 3983 - *Epiphyllum* *meigsii* - fls. tan (see pickle) ①  
 Foliage green

- 3984 - *Epiphyllum* *diffusum* - flowers white  
 with pale green tips to sepals & petals.  
 (see pickle) ①



El Valle - Floor - 600 m. Flowers at XIMBOA  
1/14/47

3985 - *Moronea* *Interum* - S. & P. yellowish green -  
minutely spotted red-brown - lip thin -  
brownish very strongly spotted with red -  
minutely spotted red-brown (see pickle) (1)

Cacao Plantation - vicinity of Summit - C. 2.  
Flowers in the collection of Mr. & Mrs. James  
Barrett, San Obispo - C. 2. 1/14/47

3986 - *Monorchrynia* *lissocoma* - S. & P. pure  
white - lip white, with narrow pink lines  
in the inner throat - throat white - edges  
lavender - column & anther also pure white -  
strong cinnamon fragrance in the ~~morning~~  
morning. (see pickle) (1)

El Valle - Floor - 600 m. Flowers at XIMBOA  
1/14/47 - collected by Dorothy O. Allen

3987 - *Oncidium* *chiropterum* - (see pickle) (1)

Cerro Chapana - Rock Face - 800 m. Flowers at  
XIMBOA - C. 2. 1/14/47 collected by Dorothy Allen.

3988 - *Sobralia* *deora* - (see pickle) (1)

3989 - *Trichocentrum* - (pickle only) (1)

El Valle - Trail to Cerro Plata - 800 - 1000 m.  
1/2/47

3990 - *Voyria* *Allenii* - Pickle only - (1)



3991 - ORNITHIDIUM ? - (MAXILLARIA) Fls. Red-Brown -  
(see pickle) ①

3992 - MAXILLARIA - Fls. pale brownish tan - lig with  
base longitudinally marked yellow callus - (see pickle) ①  
ANTHER OF SOMEWHAT ATTACHED TO TIP OF LABELLUM

Rio TOCUMÁN - vicinity of PEORA - 50 m. Flowered  
at AMBOA 7/5/46 - collected by GRATTAN FAIRCHILD

3993 - CATASETUM VIRIDIFLAVUM - (Pickle only)  
male & female flowers - ①

Rio MATA AMORADO - vicinity of EL VERDE  
500 m. Flowered in the collection of MR. & MRS.  
JAMES BARRETT - BAS OBISPO - C. Z.

3994 - GALENIPEDIUM LONGIFOLIUM - (Pickle only) ①

Cerro UYUCA - HONDURAS - 5000 FT. PINE-OAK  
CHARRINOS - with Prof C. Standley and Louis O.  
Williams. 12/5/46

3995 - LUPINUS - Fls. Blue ③

3996 - PHASEOLUS - vine - Fls. purple - ①

3997 - HYPTIS - SHrub or woody herb - 1 m. ①

3998 - ASTRAGALUS MONTENEGROENSIS ①

3999 - OREGANUM - tree - 6 m. ①

4000 - TILLANDSIA STANDLEYANA - suffr. bracts red -  
Fls. dark purple - common on pines - ③

4001 - CATOPSIS - common on pines - ①



4002 - *Tillandsia* - Bases  $\frac{1}{4}$  of leaves brown -  
terminal  $\frac{3}{4}$  green - Sepals bracts red - Terminal  
bracts of inflorescence green - Flowers  
dark purple - Common on pines - (2)

4003 - *Salvia dorisiana* Standley - Fls. bright pink - (2)

Summit of

Cerro Uyucá - Honduras - 6000 ft. Cloud Forest  
12/5/46 - with Prof. C. Standley and Louis Williams

4004 - *Monotropa* - ~~Coelocarya~~ - *Monotropa*  
Coelocarya - Fls. bright pink - (2)

4005 - *Prescottia strobilifera* - (1)

4006 - *Podocarpus* - Trees to 75 ft. very common - (4)

4007 - *Peperomia* - Epiphytic and terrestrial herb -  
common - *Quadrifolia* (L.) HBK. (1)

4008 - *Psychotria* - Tree - 4 m. (3)

4009 - *Saurauia villosa* - Small tree - 6 m.  
Fls. white - (4)

Vicinity of El Zamorano - Honduras - 2500 ft.  
12/7/46 - with Prof. C. Standley and Louis O. Williams

4010 - *Hyptis macriniana* Benth. - Herb - 2 m. (2)

4011 - *Croton popenoei* Standl. Shrub - 1 m. (3)

4012 - *Alvaradoa amorphoides* Liebm. Tree - 6 m. (2)

4013 - *Pisonia maritima* D. Sm. Tree - 15 m. (2)

4014 - *Espeletia mexicana* DC. Herb - common - (1)

4015 - *Zinnia mexicana* - Fls. dull red - common (3)

4016 - *Trichanthes calderonii* Standl. Shrub - 6 m. (2)

4017 - *Richthia hirta* L. Tree - 15 m. (1)

4018 - *Ipomoea arborescens* - Woody shrub - 3 m. Fls. white (2)

4019 - *Rapanea buyanensis* Aublet - Tree - 6 m. (2)



4020 - Tree - 6 m. Fruits red -

(3)

4021 - Aristolochia - Fls. brown - faint woody  
liana - Fls. procreant from old woody vines -

(1)

\* Honduras notes to Hall sent November 2/15/47

Vicinity of Chiva Chiva - ~~100 m.~~ 100 m. 1/15/47  
Collected by Graham Fairchild

4022 - Epidendrum schlecterianum Ames -  
(see pickle) Fairchild.

(1)

Cerro Chigana 800 m. 1/15/47 -

4023 - Ardisia compressa HBK. - Tree - 6 m.  
Fls. pink -

(4)

4024 - Shrub or Stout Herb - 1 m. note  
odd fruit -

(1)

4025 - Maxillaria - S & P. pale green - tinted lavender -  
lip pale green - with median yellow arches -  
Anther cap sometimes adhering to point  
of labellum - (see pickle)

(1)

4026 - Maxillaria - S & P. yellow - lip red - brown -  
(see pickle)

(1)

4027 - Epidendrum radicans - Summit of Rock  
Face - (see pickle)

(1)

4028 - Epidendrum anceps - Fls. greenish yellow -

(1)

4029 - Broussin - Guzmania dissitiflora (Andre)  
L. B. Smith -

(1)



4030 - Bromeliad - Scape Bracts. Red - Fls.  
white - common -

(1)

Vicinity of Aguadulce - 50 mi. 1/23/47

*PEIRANISIA VELUTINA* BRITTON & KILLIP

4031 - SHrub - (CASSIA) 1 1/2 mi. Fls. yellow - very  
common to marsh floors in the wet season -

(5)

*CASIMYRIA ERIOSTACHYS*

4032 - *Schinolobium* - trees - averaging 8 meters  
but sometimes reaching 15 meters under  
favorable circumstances - fls. yellow -  
seen only in the area from Aguadulce  
to the OCU entrance road -

(8)

Vicinity of Campaña - 100 mi. 1/21/47

4033 - *Pteris* ? - woody vine - fls. purple -  
very common -

(2)

4034 - *Schinolobium* - large trees - 25 m. fls.  
pale yellow - known locally as "Indio"  
seen from Mambora to Cerro Campaña -  
covering areas of 100 inch precipitation -  
often clustered in "manchas" of 8-10 trees -  
NOT TO BE CONFUSED WITH NO. 4032

(15)

(1)

~~4035 - *Peperomia* *calamitoides* (HBK.) DC - woody herb -  
fls. pink~~

(1)



Vicinity of Ocu - 100 m. 1/22/47

- 4035 - Mimosa pudica - Fls. pink. (2)
- 4036 - Bauhinia - Small unarmed tree - 6  
metres - Fls. white - (4)
- 4037 - Leucaena - tree - 15 m. Fls. white - (7)
- 4038 - Calycophyllum candicans (Vahl) DC.  
Trees - 20 m. Fls. & bracts white - (4)
- 4039 - Guadua aculeata R. & P. ex Fourn.  
Dense spiny clumps - 20 m. common  
along stream, coarses - (8)
- 4040 - Pectis ~~capillaris DC.~~ <sup>capillaris DC.</sup> Herb - Fls.  
yellow - capillaris - DC. (2)
- 4041 - Acanthaceae Herb - Fls. pink - (2)
- 4042 - Pterolepis pumila (Bourq.) Cogn. Fls. pink. (1)
- 4043 - Desmodium canaliculatum (HBK) DC.  
Woody herb - 1 1/2 m. Fls. pink. (1)
- 4044 - Rynchospora mexicana DC. woody  
herb - 1 m. Fls. rosy purple - (2)
- 4045 - Menthaeae - Fls. lavender - (1)
- 4046 - Composite - Fls. pale yellow - (1)
- 4047 - Roselia verticillata HBK. Stout  
herb - 1 m. Fls. red - (1)
- 4048 - Schottesia guianensis (Aubl.) Mart.  
Fls. pale pink - (1)
- 4049 - Pteropurpuria latifolia (Roez) Roem.  
Common tree - 8 m. (2)
- 4050 - Herb - common in pastures - (3)
- 4051 - Solanum - Small tree - 3 m. Fls. white - (3)
- 4052 - Combretum <sup>fruticosum HBK.</sup> ~~fruticosum HBK.~~ woody scandent shrub  
8 m. Fls. greenish yellow - Fruits  
red-brown - common - (5)
- 4053 - Menthaeae - tall herb - 1/2 m. Fls.  
lavender - (2)



- 4054 - *Carex pruriifolia* HBK. woody herb -  
1 1/2 m - Fl. yellow - common - (1)
- 4055 - *Davilla lucida* Presl. scandent shrub -  
4 m. ~~shrub~~ (1)
- 4056 - *Triumfetta* - shrub - or woody herb -  
1 1/2 m. (3)
- 4057 - *Wattersonia stolonata* Presl. - shrub - 1 1/2 m.  
Fl. white - common - (3)
- 4058 - *Boerhaavia ulmifolia* Lam. (1)
- 4059 - *Asclepias curassavica* L. (1)
- 4060 - shrub - 2 m. Fruits red - (3)
- 4061 - *Sida* - Fl. buff - common weed - (2)
- 4062 - *Hymenocallis curvata* L. - tree - 15 m. (1)
- 4063 - *Anacardium occidentale* L. Small trees -  
Planted along road sides - common - (1)
- 4064 - ~~Rapanea~~ <sup>SPURSEA</sup> *Simauba* (L.) Rose - small tree  
10 m. common - (1)
- 4065 - *Jatropha curcas* L. shrub - 3 m. Sterile - (1)
- 4066 - *Aphelandra* - shrub - 2 m. Fl. pink - (2)
- 4067 - *Clusia* - <sup>ODONTA STEM.</sup> tree - 12 m. Fl. pink - common - (5)
- 4068 - *Myrsine* <sup>ARDISIA REVOLUTA HBK.</sup> - tree - 3 m. (2)
- 4069 - *Inga* - *Spuria* H. & B. tree - 20 m. Fl. white - (3)
- 4070 - *Arrabidaea candidans* (H. C. Rich.) DC.  
Liana - Fl. purple (4)
- 4071 - *Coccoloba vitifolia* (Willd.) Spreng. (1)
- 4072 - *Mesquitea trifida* (Jacq.) Winkl. Ariz.  
woody vine - Fl. green - (1)
- 4073 - *Convolvulaceae* - vine - Fl. lavender - (1)
- 4074 - *Digitaria robinoides* Benth. "madero"  
common tree - 6 m. Fl. yellow - (1)
- 4075 - *Anacardium excelsum* (Bart. & Bate) Skeels.  
tree - 25 m. STERILE (Burrh.) *TRINIA* (1)
- 4076 - *Conostegia subcrustulata* - shrub or  
woody herb - 1 1/2 m. Fl. pink - (1)



- 4077 - ACANTHACE - HERB - Fls. PINK - Common about STREAMS - (3)
- 4078 - JACQUEMONTIA PENTANTHA - (Jacq.) DON Convolvulus - Fls. White - Common (2)
- 4079 - SOLANUM, vine - Fls. pale blue - (1)
- 4080 - IPOMOEA TRILOBA L. vine - Fls. lavender. (1)
- 4081 - FOSSYPIUM ~~TRIDENS~~ <sup>TRIDENS COOK & HUBBARD</sup> ~~FOSSYPIUM~~ - Stout woody HERB - 4 m. - Fls. ~~pink~~ <sup>lavender</sup> pale yellow pink (1)
- 4082 - CAECALA FISSILIS VETH. Tree - 15 m. (3)
- 4083 - Tree - 15 m. (3)
- 4084 - CAESALPINIACEAE - HERB - 1/2 m. Fls. yellow. common weed - (1)
- 4085 - Composite - woody HERB - 2 m. Fls. pale lavender - common - (2)
- 4086 - AMARANTHUS SPINOSUS L. (1)
- 4087 - AESCHYNOMEAE AMERICANA L. weak HERB - 2 m. Fls. yellow (1)
- 4088 - CENTROSEMA PUBESCENS Benth. vine - Fls. lavender - (1)
- 4089 - SALVIA OCCIDENTALIS Sw. Fls. Blue common weed - (1)
- 4090 - OELIMUM MICRANTHUM Willd. common weed - (1)
- 4091 - vine - Fls. pale pink - (4)
- 4092 - LIPPIA HEMISPHERICA Jacq. Aromatic SHrub - to 5 m. Fls. white - (2)

NOTES TO HERE SENT TO  
WOODSON 1/31/47

- 4093 - LAUREA SPEROZA Willd. - Tree - 20 m. Common on edges of PRIMERIES. (1)
- 4094 - HERPETICA ALATA (L.) Raf. - Small Tree - 4 m. Fls. yellow - common (2)



4095 - *Loetia SEEMANII* Thunb & Planch. - Tree - 20 m.  
Fls. white, common along streams. (1)

Rio Viejo - Vicinity of Puerto Pilon - Colon Prov.  
10 m. FEB. 2, 1947

4096 - *Setaria* - Forming dense colonies in shade -  
Stout Branches spread to  $\frac{3}{4}$  m. tall - Stems  
often to 2 m. in length. (3)

4097 - Tree - 25 m. Fls. white - (3)

4098 - <sup>woody</sup> Malvaceae - Stout <sup>woody</sup> herbs - 3 m. Fls. yellow - Calyx  
& fruit bright red - veins of undersides of  
leaves bright pink - Very showy & handsome. (5) (4)

4099 - Tree - 7 m. Fls. white - (7)

4100 - *Triumfetta* - Shrub - 2 m. Fls. yellow. (4)

4101 - *Neorhena lobata* (L.) R. Br. - <sup>woody</sup> Herbs -  
2 m. Fls. yellow - (1)

4102 - *Labiopsis Oaxacensis* (Steud.) Hitchc. - Bamboo. (2)

4103 - Palm - Completely Acaulescent - 12-15 flowers -  
Spikes produced at nodes & lower between flower  
axils - seemingly with separate staminate &  
pistillate inflorescences - Fruit clusters often  
very low in the flower axil so as to be  
nearly or quite invisible from a short  
distance - Very common in heavy forest. (1) (1)



JUAN MINA Plantation - Rio Chagres - Region Above  
Nambor - 25 mi. 2/3/47

4104 - ERYTHRINA STAUCA Willd. "tallito" - Tree -  
15 meters - extremely common on flooded land  
and islands - fls. orange - floating grass  
islands tend to accumulate in stagnant water  
and seedlings of this species take root in the  
floating matts, eventually anchoring themselves  
to the bottom & thus forming in time permanent  
islands - (1)

4105 - CONVULVACEAE - floating aquatic herb in shallow  
water along shore - fls. lavender - (2)

4106 - TREE - 12 m. flower with ERYTHRINA leaves  
in marshy land - flowers reddish brown - (1)  
TRICHANTHERA TRIDENTATA (HBK.) HUMB. & BERTH.

4107 - CONVULVACEAE - vine - fls. yellow - common. (3)

4108 - SAPINDACEAE - woody liana - fls. white - (2)

4109 - CEPHAELIS TOURNETOIA (AUBL.) VATH. - shrub -  
2 m. bracts red - (1)

4110 - RUBIACEAE - small tree - 4 m. (2)

4111 - Bixa ORCHANA L. - tree - 10 m. (2)

4112 - ANANTHERAE - herb - 2 m. fls. purple - (2)

4113 - HELICTERIS KARWINIAE FOLIA HBK. - shrub  
3 m. (1)

4114 - FABACEAE - woody liana - fls. pink. (2)

4115 - OPLISMENUS HIRTELLUS (L.) BEAUV. common (1)

4116 - FABACEAE - fls. reddish brown - (1)

4117 - HELICONIA - bracts greenish yellow -  
fls. yellow - tipped dark green - 2 m. (1)

4118 - herb - fls. white. (1)

4119 - weedy herb (2)

4120 - composite - tall weedy herb - fls. lavender (1)

4121 - ERYTHRINA TRIDENTATA VATH. fls. blue - (1)

4122 - IRESINE CECILIA L. - fls. white (1)



- 4123 - CONVULVULACEAE - VINE - FLs. purple - common. (2)
- 4124 - PIROPOUS AZUREUS (SWARTZ) RAE - common  
AQUATIC - FLs. BLUE - (1)
- 4125 - TRIUMFETTA HISPIDA A. RICH. - WOODY HERB -  
2 m. common (1)
- 4126 - HIBISCUS - WOODY HERB - 2 m. FLs. PINK. (2)
- 4127 - SOLANUM - WEAK - THICK SHrub - 1 1/2 m.  
FLs. BLUE - (1)
- 4128 - JUSSIEA NATANS H.B.K. - Floating  
AQUATIC - FLs. WHITE - very common - (1)
- 4129 - CABOMBA AQUATICA AUBL. common  
AQUATIC - FLs. PINK - (1)
- 4130 - HELICONIA - 3 m. BRACTS GREEN - FLs.  
LARGE - RED - PROMINENTLY EXsertED - (1)
- 4131 - CALATHEA LUTEA (AUBL.) R. F. W. MEYER -  
3 m. BRACTS BROWN - FLs. YELLOW - common (1)
- 4132 - DACE CAMPIDIA TIKIAEFOLIA Lam. BRACTS CREAM  
COLORED - common VINE - (1)
- 4133 - RODRIGERIA SECUNDA KUNTH - FLs.  
PINK - very common ON CITRUS - (see picture) (1)
- 4134 - TILHANSIA BARBISIANA SCHULT.  
very common on CITRUS - (3)
- 4135 - CATOPSIS NUTANS (SW.) TRISEB. very  
common on CITRUS - (2)
- 4136 - TILHANSIA FASCICULATA SW. common on CITRUS (1)
- 4137 - WOODY HERB - 1/2 m. (2)
- 4138 - APHETANERA BINCARIANA NEES - SHRUB - 3 m.  
BRACTS CREAM - FLs. PURPLE - common - (2)
- 4139 - POLYDORUM PUNCTATUM Ell. - Floating  
AQUATIC HERB - common - (1)
- 4140 - CLIBACIUM SURINAMENSE L. SHRUB - 2 m.  
common - (1)
- 4141 - SERJANIA RHOMBEA RADLK. - common VINE - (1)
- 4142 - EUPHORBACEAE - SMALL TREE - 6 m. FLs. DARK  
RED - (2)



- 4143 - ACANTHACEAE - Fls. pink - common - (2)
- 4144 - ROBINACEAE - Small tree - 3m. Fls. yellow - (2)
- 4145 - SEDGE - very common - (2)
- 4146 - VISNIA VIRIDIFLORA DUCHASS. Small tree 4 m. Fls. green - common - (1)
- 4147 - DAVILLA KUNTHII ST. Hil. - woody liana. Fls. yellow - common - (1)
- 4148 - woody liana - Fruits brown - (3)
- 4149 - FABACEAE - woody vine - Fls. purple - very common in prairie places - (2)
- 4150 - Lasiacis Oaxacensis (STEUD.) Hitchc. Bamboo - 4 m. common - (1)
- 4151 - CHAMAEFISTULA BRILLARIS (L.F.) W. Don Small tree - 3m. Fls. yellow - (2)
- 4152 - Bromeliad - common on citrus - (3)
- 4153 - COELOSPERUM VITAEFOLIOLE (WILLD.) SPRENGER (1)
- 4154 - Miconia ARGENTEA (Sw.) DC. - tree - 12 m. Fls. white - common - (5)

Rio Matuncillo - vicinity of Santa Rosa - 25 m.  
2/3/47

- 4155 - ERYTHRINA STAVEA Willd. (1)
- 4156 - HIRTELLA AMERICANA L. - SHrub - 3m. Fls. purple - (1)
- 4157 - LUEKERA SEEMANNII RIBB. & Planch. - tree 25 m. Fls. white - (2)
- 4158 - HERPETICA ALATA (L.) Raf. - SHrub - 2 1/2 m. Fls. yellow - common - (1)
- 4159 - TRIPLODIDIUM FERTONIANUM BATH. ex Lindl. (1)  
very common on large trees. (see pickle)
- 4160 - SHrub - 1 m. ~~is~~ Introduced Asian weed - (2)
- 4161 - HAMERIA NUDOSA MART. & Gal. SHrub - 2-3 m. Fls. orange - red - (1)



- 4162 - Tree - Leaves - 12 m. (2)  
 4163 - *CARDIOSPERMUM RANDIFLORUM* Swartz.  
 vine - fls. white - (1)  
 4164 - Tree - 15 m. fls. white - (3)  
 4165 - *STIMULOPHYLLON* - vine - fls. yellow - (1)  
 4166 - *CYCISTA Aequinoctialis* (L.) MiERS  
 woody liana - fls. pink - (1)

Cerro Pavita - Hills north of La Valle de Anton  
 1000 - 1200 m. 2/7/47 with Dorothy Allen

- 4167 - *Epiphyllum* - fls. green - (1)  
 4168 - *Cephaelis juncifera* Sw. Shrub or Small  
 Tree - 3 m. Bracts orange-red - fls. white - (1)  
 4169 - *Hymenophyllum Focoides* Sw. Filmy Fern  
 Common - (1)  
 4170 - *Polythaceae* - fls. white - Common - (4)  
 4171 - *Trichomanes* - Common (2)  
 4172 - *Maxillaria* - Sepals & Petals white  
 Lip reddish brown on under surface, excepting  
 for the frontal lobe which is cream yellow.  
 yellow callos. (see picke) (1)  
 4173 - Tree Fern - very stout short trunk  
 3 m. 10" diam. like Costa Rican *Pleco-*  
*de mico* - Common (1)  
 4174 - *Begonia Allenii* Standl. fls. dark pink -  
 Common - (1)  
 4175 - *Melastomaceae* - Tree - 3-6 m. in dense  
 forest - 1200 m. fls. white - very fragrant. (4)  
 4176 - Grass - Infrequent - (1)  
 4177 - *Maxillaria* - S. & P. Red - ears green -  
 lip red - margins white. callos. yellow  
 (see picke) (2)  
 4178 - *Epiphytic* Shrub - 1/2 m. fls. green - (2)



- 4179 - *VERNONIA* - SCANDENT SHRUB - 3m. Fls.  
WHITE - (1)
- 4180 - *BURKESTERIA AUROBARBATA* (E. Wimmer.) E. Wimmer,  
Epiphytic Herb - 3/4 m. Fls. BROWN - (1)
- 4181 - *BYCHOTRIA JEPEROMIAE* STANDL. Epiphytic  
SHRUB - FRUITS RED - COMMON - (1)
- 4182 - *TILHANSIA BOMACASTENSIS* STANDL. (1)
- 4183 - *COLUMNEA RUBRA* MORTON - Calyx Red - with  
green separate markings - UNDERSIDES OF  
LEAVES VINE RED - FLOWERS BRINKT YELLOW - (1)
- 4184 - *ACETHEA ALLENII* L. B. SWIFT - SCYFE BRACKETS  
BRINKT PINK - Fls. Deep lavender - Common - (1)
- 4185 - *EPIDENDRUM CLASSICUM* P. & E. S. & P. TAN  
Heavily blotched Red-brown - lip pale yellow -  
Frontal joint lavender - (1)
- 4186 - *BURKESTERIA BOATEIENSIS* L. B. SWIFT - SCYFE  
BRACKETS STRIPED RED & GREEN - Fls. yellow - (1)
- 4187 - *LESIANTHUS* sp. SHRUB - 3m. Fls. yellow -  
TIPPO GREEN - (2)
- 4188 - *ANTHURUS* sp. - Epiphytic - (1)
- 4189 - *PLEUROTHALLIS* - Fls. MAROON - (SEE PICKLE) (1)
- 4190 - *PITCAIRNIA* - TERRESTRIAL - Fls. Red - Common - (1)
- 4191 - Tree - 3m. IN ELFIN FOREST - Fls. WHITE - (5)
- 4192 - *MAXILLARIA ENDREII* VAR. *MAUSTSEIENSIS* (1)
- 4193 - *CREBA ALLENII* WOODS. Tree - 20m. THICK  
16" DIAM. Fls. WHITE - STAMENS yellow - (3)
- 4194 - *SCHATTLEA* - Epiphytic SHRUB - 1m. Fls.  
WHITE - (2)
- 4195 - *EUTERPE JAMAICENSIS* BURRET 3-4 m.  
DWARFED BY WIND - IN ELFIN FOREST - (1)
- 4196 - *ORNITHOCYPHUS* - S & P. WHITE - lip DARK  
GREEN - MAROON WHITE - (SEE PICKLE) NEW? (1)



Rio Viejo - vicinity of Puerto Pilon - Caba Province  
10 m. Feb. 2, 1947

4197 - *Heliconia Bihai* L. Common -

(1)

JUAN MINA - Rio CHARRAS - 25 m. 2/3/47

4198 - *Cordia Alliodora* (Ruiz + Pavon) Roemer + Scholt.  
TREES - 15 m. Fls. white - common -

(3)

4199 - *Heliconia Bihai* L. Common -

(1)

4200 - *Calathea lutea* (Aubl.) B. & H. Meyer

3 m. BRACTS BROWN - Fls. yellow - undersides  
of leaves white - common

(1)

4201 - *Ochroma linnearioides* Rouben - Tree - 15 m.  
Fls. white - common -

(1)

Vicinity of Beluco - Sea level - 2/7/47 -

4202 - *Bignoniaceae* - woody liana - flowering without  
leaves - very common in low trees along  
highway - Fls. pink -

(4)

4203 - *Treevia paraguayana* (L.) Hemsl. trees - 20 m.  
common to rocky hills east of Beluco -  
Fls. pink -

(2)

LA YARHE - floor - 600 m. 2/7/47

4204 - *Anacardium excelsum* (Bart. & Ealy) Spegler.  
Trees - 25 m. common along streams -

(1)

4205 - *Shorea thalicti muricata* Seibert. Fls. yellow.  
very common -

(1)

4206 - *Gustavia* - tree - 20 m. trunk 12" diam.  
Fls. lavender -

(1)



Hills South of El Valle - 700 m. 2/7/47 -

- 4207 - *Scaphyphloxia* - Fl. white - common. (2)  
4208 - *Epidendrum ibaguense* HBK. - common on roadside banks in grass - (see pic) (2)  
4209 - *Dyssodia montana* (Benth.) Gray - Fl. orange - common showy herb. (1)  
4210 - *Lisimachis corymbosus* Perkins - Shrub - 2 m. Fl. yellow - (1)

Hills & clearings North of El Valle - 700-800 m. 2/7/47

- 4211 - *Encelium cheiropterum* RHB. F. - Fl. yellow common - (1)  
4212 - *Woodsia?* Woody herb - 1 m. Fl. white - common in clearings - (3)  
4213 - *Mimosa* - Shrub - 3-4 m. common along trails - ~~also~~ in hillside clearings - (2)  
4214 - Woody herb - 3 m. Fl. yellow - (1)  
4215 - *Begonia humifera* A. DC. Woody herb - to 2 1/2 m. Fl. very pale pink - (3)  
4216 - *Begonia squarrosa* A. DC. Fl. white - (1)  
4217 - *Centropogon nutans* Phil & Oakes. Shrub - 3 m. Fl. pink - (1)  
4218 - *Myriocarpa yzambiensis* (Don. Sm.) Killip. Small tree - 4 m. common in second growth along trails - Fl. white - (1)  
4219 - *Aechypha* - Shrub - 3 m. (2)  
4220 - *Iresine celosia* L. Woody herb - 2 m. Fl. white - (1)



El Valle - Floor - Trails near TRIPIC - 600 m. 2/7/47

- 4221 - SIDA? - woody Herb - 3 m. Fls. yellow - (4)  
4222 - COENUTIA GRANDIFOLIA VAR. NORMANDII (KUNZE)  
mohdenke - Tree - 6 m. Fls. Blue - (1)  
4223 - MACRODENDRON STREPEREUS (Benth.) Wedd.  
Tree - 20 m. Fls. Pink - Also on Cerro  
Cangra - (1)  
4224 - woody Herb - 2 m. Fls. Blue - common (2)  
4225 - CONOLOBOS ALLENII woods - woody vine,  
Frequent along trails - Fls. green - (1)  
4226 - Acanthaceae - woody Herb - 1 1/2 m. Fls.  
pinkish orange - (1)  
4227 - Composite - Branching woody Herb - to 3 m.  
Fls. yellow - common along trails - (4)  
4228 - SYNEDELLA NOVI FLORA (L.) KARTN. Herb -  
1/2 m. Fls. yellow - (1)  
4229 - TRICHANTHA - woody Herb - 2 m. (3)  
4230 - IRESINE - Scandent Herb - 3 m. (2)  
4231 - SIDA - <sup>Bushy</sup> woody Herb - 1 m. Fls. yellow  
common (3)  
4232 - CROTON - SHrub - 2 m. Fls. white - (3)  
4233 - ORNITHOGALUM COEHLERIFORMIS C. Schousb. (1)  
4234 - Bushy Herb - 2 m. Fls. white - (2)

Cerro Cangra - 800 m. Collected by William Fairbridge  
1/24/47

- 4235 - MAXILLARIA - Fls. tan - (see pickle) (2)  
4236 - PRESCOTTIA OLIVANTHA (Sw.) Lindl. (1)

Cerro Cangra - 800 m. Fls. stained 1/6/47

- 4237 - MAXILLARIA - Same as No. 4235 - (1)  
4238 - SPIRANTHUS ACUTUS (Vie. Sm.) Conn.  
on Rock Face - (see pickle) - Fls. green (1)  
see Voucher Photo



Cerro Changua - 800 m. Flo. Nambor 2/14/47

4239 - *Epidendrum anceps* - Jacq. (1)

Vicinity of Santa - Flo. Nambor 2/6/47

4240 - *Trichostema Ebertonianum* Batem. ex Lindl.  
Sepals & petals pale greenish yellow - the  
petals striped brown + with round brown spot  
at tips. Reversed front lobes of lip  
yellow - Inner lip under column striped  
brown - Common on large trees in  
pastures - See also 4159 (1)

4241 - *Laelia Wiedemannii* (Pill.) L. Wms.  
S. & P. brown - lip pinkish lavender  
edges brown with central yellow callus -  
(See pickle) (1)

Vicinity of David - Chiriqui Province - 25 m.  
Flowers Nambor 2/15/47

4242 - *Oncidium stipitatum* Lindl. S. & P. very  
heavily blotched red-brown - Labellum & lateral  
lobes bright yellow - Crest heavily spotted  
red-brown - <sup>Reverse</sup> lower surface of lip heavily  
spotted red-brown - (See pickle) (2)

Very. Rio de Jesus - Flo. Nambor 1/4/47

4243 - *Bombophytum jollyi* R. & S. (3)

Very. Rio de Jesus - Flo. Nambor 2/15/47

4244 - *Aspidia epiphyllodes* Lindl. -



VICINITY OF ESQUINTIA - GUATEMALA - 100 m. Flowered  
in the collection of NATHAN FARRER 2/1/47

4245 - ONCIDIUM CAVENDISHIANUM BATON. Leaves very  
thick. S & P. WHITE, UNDULATE - Heavily SPOTTED  
BROWN. Lip BROWN with UNDULATE WHITE margins.  
Crest & column white. (see pickle) ①

VICINITY OF EL ZAMORANO - Dept. DE MORAZAN - 2500 ft.  
Flowered BANBORA 1/28/47

4246 - ONCIDIUM AFF. O. CAROLINAE - S & P. yellow  
Heavily spotted LIGHT BROWN - Frontal & lateral  
lobes of lip yellow - callus lightly dotted  
red-brown - (see pickle) ①

Hills south of MANAGUA, NICARAGUA - 250 m.  
VICINITY OF CASA COLORADA - Flowered BANBORA  
1/28/47

4247 - ONCIDIUM STIPITATUM Lindl. - S & P. yellow -  
spotted red-brown. Frontal & lateral lobes  
of lip BRIGHT yellow - Crest heavily  
spotted brown - (see pickle) ①

Rio TEPEMUTIN - HONDURAS - Between Lake YOLA &  
Si Guaymas - 500 m. Flo. BANBORA 1/28/47

4248 - ONCIDIUM STIPITATUM Lindl. S & P. yellow -  
spotted red-brown - lip & lateral lobes BRIGHT  
yellow. Crest spotted brown - (see pickle) ②

4249 - NOTYLIA pentachne Rolfs. F. Sepals pale brown  
petals white, with one to several minute  
orange spots - lip pure white. (see pickle) ①



4250 - *ONCIDIUM LURIDUM* Lindl. - S. & P. Brown -

Lip Brown - with a rich yellow & mauve crest -  
column & wither of pale pink - (see pickle) ①

\* - NOTES TO HARRIS Smit Woodson 4/25/47

Rio Lindo - Honduras - Vety. V. = Punta Blanca - 300 m.  
Dept. de Yoro - Flo. Atkinson 2/24/47

4251 - *BONNORA QUINQUENARVIS* Ruiz at Pavon - Lower  
Segura, petals & column heavily marked & spotted reddish  
brown - upper two sepals divided longitudinally  
in two distinct color areas, half pure white &  
half reddish brown. Labellum wax white, excepting  
frontal lobe, half of which is pale tan - (see pickle) ①

Rio Viejo - Colon Province - Vety. Puerto Pilon - 25 m.  
Flo. Atkinson 2/24/47

4252 - *Aspidia principissa* Rehb. F. - Sepals & petals pale  
green - striped brown - lip pale yellow, with prominent  
pattern of darker yellow lines from the column.  
Column creamy white - (see pickle) ①

Rio Matuncillo, Vety. Santa Rosa - 25 m. Flo. Atkinson  
2/24/47

4253 - *Loxanthia pallida* Rehb. F. - Sepals & petals white  
Labellum pale yellow - (see pickle) ①

Cerro Palmar - El Valle - 1000 m. Flo. Atkinson  
2/20/47 -

4254 - *Maxillaria* - S. & P. Tan - Frontal lobe of  
lip Red - Brown - ①



4255 - *Scaphylothea bilineata* (Roth. f.) Sullstr.

Yery, Panama Vieja - Panama Prov. 0 m. (Sea level)  
2/18/47

4256 - *Pithecolobium oblongum* Benth. Tree - 4 m.  
Fls. white - Fruits Red - (14)

Rio Mata - Atorazo - 300 m. vey. of El Valle -  
Fls. Amber 2/24/47

4257 - *Selenipedium longifolium* Roth. f. (1)

Peña Blanca - Hot waters of the Rio Lirio - Dept. of Yoro  
Honduras - 300 m. Fls. Amber 2/18/47

4258 - *Conoclinium quinquevallis* Ruiz et Pavon - Fls.  
Rosset - Vinaceous - (See pickle) (1)

Cerro Pajita - El Valle de Antón - 1000 m.  
Fls. Amber 2/18/47

4259 - *Leckartia* - Fls. yellow - tip with orange  
callos at base - (See pickle) (2)

Cerro Chiguita - 800 m. Fls. Amber 2/16/47  
Collected by Dorothy Athan

4260 - *Tricostema* sp. Sepals green, Petals  
green - Throat brown - Labellum green white  
with red-brown markings at base. Anthers  
off white - white - Column white  
(Pickle, ash) (1)



YCTY, SONA- VERAGAS PROVINCE - 1/23/47

4261 - *Cliricidia sapium* (Jacq.) STEND. - Small tree - 4 m.  
Fls. PINK - common along roadside - (4)

YCTY, LA COTACOLA - PANAMA PROVINCE - 50 mi. 2/28/47

4262 - *CASSIA KRAMDIS* L. F. - TREE - 20 m. Fls.  
PINK - (2)

4263 - *CASSIA MOSCHATA* H. B. K. - TREE - 15 m.  
Fls. BRIGHT ORANGE - (4)

4264 - *SOUROUBEA* - woody liana - (3)

CHIVA - CHIVA ROAD - PANAMA PROVINCE - 100 mi. 3/2/47  
woody climber

4265 - *TABEBUIA* - TREE - 20 m. Fls. yellow - (3)

4266 - *PASSIFLORA VITIFOLIA* HBK. Fls. SCARLET.  
Common - (1)

4267 - *MAECLENEMUM KLABREGENS* (Benth.) WOOD.  
TREE - 15 m. Fls. PINK - (2)

4268 - *BARLERIA MICANS* NEES - Fls. yellow - (4)

4269 - *TRIPLARIS AMERICANA* L. - FRUITS DARK PINK.  
Tree - 15 m. (4)

CERRO PLATA - EL VALLE - 1000 m. Fls. variegated  
3/1/47 -

Orethia *Platypholis cerisea* de Waele

4270 - Sepals greenish olive, petals pale green,  
striped olive, lip near white, slender  
lanceolate on under surface - (see picture) (3)



FLD. RAMBOA

Cerro Chuparra - Motagua - Province - 500 m. 3/6/47

4271 - *Scaphylotheca* sp.

(1)

Rio Tejemechin, Honduras - FLD. RAMBOA 3/1/47

4272 - *Notylia pentachne* Rott. F. Sepals brown,  
petals white, with 1-3 minute orange spots,  
lip white - (SEE pickle)

(1)

Vcty. Rio de Jesus - VERAGUAS PROVINCE - FLD.  
RAMBOA 3/2/47

4273 - *Aspidia epidenroides* L. Sepals brown, with  
greenish margins. Petals pale lavender, lip white,  
with prominent purple blotches. Ovary yellow.  
Column & anther cap tinged lavender -  
(SEE pickle)

(4)

Vcty. RAMBOA, C. 2. 100 m. 3/8/47

4274 - *Platymiscium* ? - Tree - 12 m. Fls. orange -

(5)

Vcty. Pinotapa - DARIEN PROVINCE - 20 m. 3/4/47

4275 - *Combretum* sp. Woody liana -  
calyx red. Stamens yellow

(5)

4276 - *Triplaris* - Fls. white - Tree - 10 m.

(3)

4277 - *Thourea* vine - *Trinervia* -

(3)

4278 - *Prothyridium* - Vine - Fls. pink -

(3)

4279 - *Burkea ulmifolia* Lam. - Tree - 10 m.

(4)

4280 - Weedy herb - 2 m. Fls. white -

(2)



- 4281 - *Leucaena* - Tree - 30 m. (5)
- 4282 - *Heliconia* - 2 m. Bracts green fls. Rose Red - Prominently variegated (see picture) (3)
- 4283 - *Rubiacae* - Tree - 30 m. Fls. white - (5)
- 4284 - Tree - 30 m. (2)
- 4285 - *Lauraceae* - Tree - 30 m. (3)
- 4286 - *Anacardium excelsum* (Bart. & Balle.) Skeels. Tree - 25 m. (3)
- 4287 - *Tabebuia pentaphylla* (L.) Hemsl. Tree - 20 m. Fls. pink - (6)
- 4288 - *Convolvulaceae* - Vine - Fls. yellow - (3)
- 4289 - Tree - 10 m. Fls. white - (5)
- 4290 - *Liana* - Fls. white - (4)
- 4291 - *Luetkea Seemannii* Trim. & Planch. - Tree - 30 m. (5)
- 4292 - *Aristolochia grandiflora* Swartz - Vine - Fls. blotched dark purple - (4)
- 4293 - *Petrea volubilis* Jacq. woody liana - Fls. blue - (1)
- 4294 - *Tabebuia kunzeana* (Seem.) Hemsl. - Tree - 25 m. Fls. yellow - (2)
- 4295 - *Bombax Barrington* (Seem.) Desaisne - Tree - 20 m. Fls. white (2)

YCTY. Belwee - Panama Province - 25 m. 2/28/47

- 4296 - *Anacardium excelsum* (Bart. & Balle.) Skeels. Tree - 25 m. Common along streams - (2)

YCTY. Yape - Rio Tuira - Darien Province - 25 m. 3/5/47

- 4297 - *Kouzuia ulmifolia* Lam. - Tree - 12 m. (3)



- 4298 - COMPOSITE - TREE - 6m. Fls. pinkish  
lavender - leaves grayish - Also seen  
on gravel banks of Rio Apimá - Colombia. (8)
- 4299 - woody Herb - 3m. Fls. yellow - (4)
- 4300 - <sup>Rubiacae</sup> woody Herb - 1 1/2 m. Bracts red - Fls.  
yellow - common in banana plantations - (5)
- 4301 - GRASS - common on riverside banks - (5)
- 4302 - ANTHURACEAE - SCANDENT Herb - 3m.  
Fls. white - (3)
- 4303 - *Heliconia porphyranensis* HBK. - TREE -  
12 m. Fruits pink - (5)

4304 - CORN - DARÍEN NO. 1 - Red - cultivated by local  
Indians

4305 - CORN - DARÍEN NO. 2 - yellow.

4306 - CORN - DARÍEN NO. 3 - Red - DWARF

VCTY. PINOTANA - DARÍEN PROVINCE - 20 m. 3/4/47

- 4307 - COMPOSITE - woody Herb - 2 m. Fls.  
white - common - (5)
- 4308 - *Heliconia mariae* Hook - (1)
- 4309 - ONCIDIUM STIPITATUM Lindl. (see pickle)  
Bt & P. yellow - spotted red - brown - Lachnium  
yellow on both surfaces - (1)
- 4310 - *Gustavia superba* (H. B. K.) Barb. - TREE -  
10 m. (3)
- 4311 - *Cecropia mexicana* Hemsl. - TREE - 10 m. (2)
- 4312 - *Ochroma limonensis* Rowlee - TREE - 12 m.  
Fls. white - (2)
- 4313 - *Heliconia binai* L. (1)



Cerro Pasita - Region North of La Yalta de Arroyo  
1200 m. Itd. SANBORA. 3/10/47

4314 - *Polycygnis barbata* (Lindl.) Rehn. f.  
S. & P. Pale translucent yellow, throat spotted  
red. Labellum white, the lateral lobes spotted  
red. Lower frontal lobe white, spotted purple. ①  
Column green. Anther cap purple. (see picke) (

YCTY. Madden Dam, C. 2. 30 m. 3/20/47

4315 - TREE - 25 m. - RARE in cuipo dominated  
deciduous forest - LEAVES - (IF you don't ⑨  
believe it, open the seed pods !!)

YCTY. Pico de - 10 m. 3/16/47

4316 - *Dalbergia retusa* Hemsl. - TREE - 20 m. Fls.  
WHITE - ⑤

"LA VICTORIA" - YCTY, La Joya - PANAMA PROV. 200 m.  
3/16/47

4317 - WOODY SEMI-DECAIDUOUS SHRUB. Fls. PINK -  
LEAVES - ③

Cerro Campana - 2000 ft. Fls. coll. Graham Fairchild  
2/10/47

4318 - *Oncidium stipitatum* - (Picke only) ①

4319 - *Dicerium bidanichlatum* (Rehn) Hemsl. (Picke only) ①

4320 - *Epidendrum* aff. *E. nocturnum* - growing on  
rocks in full sun. (Picke only) 8 plant - ①



EL VALLE - 1800 FT. FLD. in the coll. DRAMANI FAIRCHILD  
2/15/47

- 4321 - *BOMBORA QUINQUE NERVIS* Ruiz ET PAVON (Pickle only) (1)  
4322 - *CATASETUM SCURRA* LOHB. F. (Pickle only) (1)  
4323 - *DICHAEA* - (Pickle only) (1)  
4324 - *MAXILLARIA ENDRESII* VAR. *ANGUSTISEGMENTA* (A. & S.)  
SCHWEINF. (Pickle only) (1)

CHIVA - CHIVA ROAD - 50 MI. coll. DRAMANI FAIRCHILD  
1/20/47

- 4325 - *EPIDENDRUM SOLLENTERRIANUM* AULES - (Pickle only) (1)

CERRO CAMPANA - 1000 FT. FLD. coll. DRAMANI FAIRCHILD  
1/20/47

- 4326 - *EPIDENDRUM STAMFORDIANUM* BATEM. (Pickle only) (1)  
4327 - *MAXILLARIA* - (Pickle only) (1)  
4328 - *MORMODES IENEUM* LINCH. (Pickle only) (1)

YCTY. BEDUCCO - 25 MI. FLD. coll. DRAMANI FAIRCHILD  
2/15/47

- 4329 - *ONCIDIUM AMPLIATUM* LINCH. (Pickle only) (1)  
4330 - *ONCIDIUM STIPITATUM* ? - (Pickle only) (1)

CERRO CAMPANA - 2000 FT. FLD. coll. DRAMANI FAIRCHILD - 3/15/47

- 4331 - *EPIDENDRUM ONCIDIODES* ? (Pickle only) (1)



VCTY. SANTA FE - VERAGUAS PROVINCE - FORESTED SLOPES  
OF CERRO TUTÉ - 3000 FT. 3/24/47

- 4332 - Bromeliad - Epiphytic - Same as on Cerro Pasita  
& Cerro Trinidad. (1)
- 4333 - Heliconia - INFLO. pendulous - apical  $\frac{1}{2}$  of  
bracts dark red - basal  $\frac{1}{2}$  yellow - 3 m. (1)
- 4334 - Papaveronia - Epiphytic - (1)
- 4335 - Columnnea - Epiphytic - calyx only - (1)
- 4336 - Elleanthus linifolius Presl ?? fruiting spec. (1)
- 4337 - Elleanthus divifolius Presl ?? fruiting spec. (1)
- 4338 - Maxillaria - (coll. by Román Fairchild) S. & P.  
white - lip white, the frontal lobe yellow.  
(see pickle) (1)
- 4339 - Sedge - in heavy forest - (3)
- 4340 - Cavendishia - Epiphytic shrub - 2 m.  
bracts pink - fls. lavender - (9)
- 4341 - Tree - 15 m. fls. white - also on  
crest of Cerro Pasita - (5)
- 4342 - Acanthaceae - woody herb - 2 m. fls. red. (3)
- 4343 - Cavendishia dultharoides A. C. Smith - (3)  
Epiphytic shrub - 1  $\frac{1}{2}$  m. bracts pink -  
fls. pale yellow -
- 4344 - Spiranthes navarrensis (Ames) L. Wms.  
fruiting specimen - (1)
- 4345 - Rubiaceae - shrub - 2 m. fls. blue - (7)
- 4346 - Lobeliaceae - Epiphytic herb -  $\frac{3}{4}$  m. (1)
- 4347 - Melastomaceae - woody herb - 1 m.  
fls. pink - (1)
- 4348 - Cephaelis punicea Sw. - tree - 5 m.  
bracts orange-red - (4)
- 4349 - Centrojoron - scandent shrub - 3 m.  
fls. red - tipped orange yellow - (1)
- 4350 - Gesneriaceae - herb - 1 - 1  $\frac{1}{2}$  m.  
fls. white - monopyle. (4)
- 4351 - Gesneriaceae - Epiphytic herb -  
fls. white - (1)



- 4352 - OLUSIACEAE - TREE - STILT ROOTS - 20 m. Fls. WHITE - STAMENS yellow - GRAFTY LATEX. (6)
- 4353 - PSAMMISIA - BRANCHING EPIPHYTIC SHRUB - 4 m. COROLLA CORAL PINK - TIPPED WHITE. (4)
- 4354 - ERICACEAE - EPIPHYTIC BRANCHING SHRUB - COROLLAS CORAL PINK WITH DARK GREEN TIPS. (4)
- 4355 - MELASTOMIACEAE - TREE - 75 FT. Fls. WHITE - ALSO ON CREST OF CARRO PATITA. (6)
- 4356 - SMILACINA PANICULATA - Fls. WHITE (1)
- 4357 - BESONIA LADRA AVEL. ?? - CLIMBING & ROOTING ON TREES - Fls. WHITE. (1)
- 4358 - CUCURBITACEAE - LIANA - Fls. BRIGHT ORANGE. (1)

YCT4. SANTA FE - FORESTED SLOPES OF CARRO TUTE - 2500 FT. 3/25/47 - WITH DRAMATI FAIRCHILD

- 4359 - EULMANIA QUATROKANSIS L. B. SMITH. (2)
- 4360 - BROMELIAD - EPIPHYTIC. (1)
- 4361 - BROMELIAD - EPIPHYTIC. (1)
- 4362 - COSTUS - 1 1/2 m. BRACTS RED - Fls. RED. (1)
- 4363 - BROMELIAD - EPIPHYTIC. (1)
- 4364 - EPIDENDRUM - Fls. GREEN - (SEE PICKLE) (1)
- 4365 - EPIDENDRUM CRYPTANTHUM L. WINS. (SEE PICKLE) Fls. WHITE. (1)
- 4366 - COSTUS - BRACTS RED - KAPLASS. (1)
- 4367 - BONAREA ALLWII Killip - VINE - Sepals Shell pink - petals pink, spotted green. (3)
- 4368 - RONDELETIA - TREE - 18 FT. Fls. PINK. (8)
- 4369 - CENTROPION NOTANS - LAX SHRUB - 3 m. Fls. PINK. (1)



- 4370 - RUBIACEAE - WOODY HERB - 1 m. FRUITS RED - (1)
- 4371 - SCAPHYNOTIS - Fls. STRIPED LAVENDER - ALSO ON  
CURRO PAVITA - (1)
- 4372 - EPIDENDRUM DIFFORME VACQ. Fls. GREEN - (1)
- 4373 - BESNERIACEAE ?? - WOODY HERB - 2 m. (2)
- 4374 - APHELANORA AURANTIACA (SCHIEDW.) LINDL. (1)
- 4375 - BERONIA SQUAMOSA G. DC. Fls. WHITE (3)
- 4376 - Palm - 6 m. FRUITS yellow - (1)
- 4377 - Palm - 6 m. (1)
- 4378 - MACROCENIDIUM STABRESCENS (Benth.) WOOD. TREE -  
15 m. Fls. PINK. (3)
- 4379 - PRYMONIA - EPIPHYTIC WOODY HERB - 1 m. Fls.  
RASIN purple - (3)
- 4380 - COLUMNEA ARUTA MORTON - Fls. SCARLET WITH  
GOLDEN yellow STRIPES - (1)
- 4381 - COLUMNEA LOCALIS MORTON - Fls. RED -  
EPIPHYTIC - (2)
- 4382 - EPIPHYTIC SHRUB - RUBIACEAE? - Fls. SALMON  
RED - (2)
- 4383 - PHAENOTHALLIS - (SEE PICKER) (1)
- 4384 - PHAENOTHALLIS - (1)
- 4385 - PHAENOTHALLIS - (RESERPIS) (SEE PICKER) (1)
- 4386 - PHAENOTHALLIS - (SEE PICKER) (1)
- 4387 - EPIDENDRUM - POSSIBLY NEW - Lf purple -  
S & P. pale GREEN - (SEE PICKER) (1)
- 4388 - PHAENOTHALLIS - Fls. RASIN purple - (1)
- 4389 - CUCURBITACEAE - VINE - Fls. NEARLY  
WHITE - (3)
- 4390 - TREE - 10 m. Fls. pale GREEN - (3)
- 4391 - LORANTHACEAE - PARASITIC SHRUB in TOPS  
OF LARGE TREES - 2 m. Fls. yellow -  
FRAGRANT - (3)



- 4392 - CARICACEAE - TREE - 7 m. FL. WHITE - (6)
- 4393 - PLATYLOTIS CORIACEA L. WALS. (SEE PICKLE) (3)
- 4394 - RUBIACEAE - GIANT WOODY LIANA - FL. WHITE - FRAGRANT - (5)
- 4395 - BROMELIAD - EP'PHYTIC - (1)
- 4396 - RUBIACEAE - TREE - 8 m. FL. PURPLE - COMMON - (3)
- 4397 - GRASS? FL. WHITE - (1)
- 4398 - BROMELIAD - EP'PHYTIC - (2)
- 4399 - RUBIACEAE - SHRUB - 4 m. FL. YELLOW - (2)
- 4400 - LYCASTE MACROPHYLLA LINDL. (SEE PICKLE) (1)
- 4401 - ODONTOMEMA STRICTUM (NEES) KUNTZE - WOODY HERB - 1 1/2 m. FL. RED - (1)
- 4402 - ACANTHACEAE - FL. LAVENDER - (1)
- 4403 - MALIACEAE - TREE - 15 m. FL. WHITE - (1)
- 4404 - ARDISIA SEIBERTII - SHRUB - 4 m. FL. LAVENDER - (4)
- 4405 - MAXILLARIA - G. & P. WHITE - LIP RED - BROWN-FOLIAGE BRUIEN GREEN - (SEE PICKLE) ALSO ON GUANO PASITA - (5)
- 4406 - PLANTAGINACEAE - (SEE PICKLE) (1)
- 4407 - EUPHORBIA DISSITIFLORA (ANDRE) L. B. SMITH (1)
- 4408 - HELICONIA - INF. ERECT - BRACTS BLOOD RED - FL. YELLOW - (1)
- 4409 - EPIDENDRUM - POSSIBLY NEW - (SEE PICKLE) (1)



4410 - ~~Epiphyllum~~ - Epiphytic shrub - 15 cm. Fls.

Pale pink - (see pickle)

(1)

4411 - Pleurothallis - (see pickle)

(1)

4412 - Pleurothallis (Restyia) (see pickle)

(1)

4413 Ceiba Allenii Woodson - tree - 20 m.

(2)

Very, Santa Fe - Rio Santa Maria - Veracruz  
Prov. 1000 ft. 3/26/47

4414 - Epidendrum atropurpureum Willd.

(2)

4415 - Ajeiba Tibourbou Aubl. tree - 6 m.

(3)

4416 - Bembropsis - tree - 12 m. common -

(3)

4417 - Inga - tree - 8 m. fls. white -

(5)

4418 - Miconia argentea (Swartz) DC - tree - 4 m.

Common -

(4)

4419 - Miconia atropurpurea Lindl. fls. olive green -

(1)

4420 - Brassavola nodosa Lindl.

(1)

4421 - Ochroma limonensis - tree - 10 m.

(1)

4422 - Cereopia mexicana - tree - 10 m.

(2)

4423 - Elaphrium sinaroba (L.) Rose - tree - 15 m.

(3)

4424 - Anacardium excelsum (Bart. & Barb.) S. Keats -

(2)

4425 - Composite - woody herb - 2 m. fls. white

(5)

4426 - Cact. alpinierae - woody herb - 1 1/2 m. fls. yellow

(4)



- 4427 - *HYMENAEA COURBARI* - TREE - 10 m. (1)  
 4428 - *VANILLA PLANIFOLIA* ANDR. FL. yellow - (2)  
 4429 - *LOCKHARTIA* - FL. yellow - COMMON - (1)  
 4430 - *TTARATORUM SCHIEDRANUM* CHAM. COMMON ON  
 ROCKS IN STREAMS - FL. PINK - (1)

YCTY, PINODANA - DARIEN PROVINCE - 3/4/47

- 4431 - *JACARANDA COPA* - FL. BLUE - TREES - 20 m. (6)

YCTY, SANTIAGO - VERACRUZ PROVINCE - 3/28/47

- 4432 - *BYRSONIMA CRASSIFOLIA* (L.) HBK. TREES - 10 m. (2)

YCTY, DIVISA - 25 m. 3/28/47

- 4433 - *SAManea SAMAN* - TREES - 20 m. FL. PINK - (2)

YCTY, SANTA FE' - VERACRUZ - 1000 FT. 3/26/47

- 4434 - *CASSIA GRANDIS* - FL. PINK - TREES - 20 m. (1)

- 4435 - *ANDIRA INERMIS* - TREES - 15 m. FL. LAVENDER - (3)

- 4436 - *BYRSONIMA CRASSIFOLIA* - TREE - 10 m. (1)

- 4437 - *SAManea SAMAN* - TREE - 20 m. FL. PINK. (3)



4438 - QUASSIA AMARA - SMALL TREES - 4 m. FL. PINK -  
FORMING THICKETS UNDER LARGER TREES ALONG R<sup>o</sup>  
SANTA MARIA - (2)

4439 - TREE - 15 m. FL. RABIN PURPLE - LEAVES - (4)

4440 - EPIDENDRUM IMATOPHYLLUM LINDL. - FL.  
ROSE PURPLE - GROWING IN ANT NESTS ALONG  
STREAMS - (4)

REGION WEST OF SANTA FE - DRY SLOPES OF CARRO  
TUTE - 1500 FT. - 3/25/47

4441 - CHRYSOPHYLLUM - TREE - 20 m. (5)

4442 - BIGNONIACEAE - LIANA - FL. TRAVEL - PLANT IN  
PRESS WITH A STRONG ONION ODOR - (5)

CARRO PASITA. EL VALLE - 1200 m. FL. LAMBOA  
4/9/47

4443 - PHAUROTHALLIS - SEE PICKLE (1)

CARRO ULVICA - VCTY. EL ZAMORANO - HONDURAS -  
5000 FT. FL. LAMBOA 4/8/47

4444 - BALEANDRA - EPIPHYTIC ON OAKS - S. I. P. VERY  
PALE GREEN - LIP WHITE, WITH PALE GREENISH YELLOW  
SPUR - TWO FAINT PINK LINES INSIDE THE LIP,  
COLUMN PURE WHITE - (SEE PICKLE) (1)



Cerro Palita - El Valle - 1200 m. Flo. NAMBOA  
4/6/47

4445 - *Phenothallis* - Fls. RASIN purple -

①

Rio Mata - ANOLADO - 1500 FT. Flo. NAMBOA 4/2/47

4446 - *Selenipedium longifolium* -

①

Cerro Campana - 2500 FT. Heavy Forest - Flo.  
NAMBOA 4/2/47

4447 - *Pescatorea curina* ROLB. F.

①

ECTY. Rio de Vargas - Flo. NAMBOA 3/20/47

4448 - *Epidendrum atropurpureum* - (SEE pickle)

①

Rio Lindo - KENOURAS - Flo. NAMBOA 4/2/47 -

4449 - Fls. ORANGE - SEE pickle -

①

El Valle - Floor - 1800 FT. Flo. NAMBOA 3/20/47

4450 - *Maxillaria charticifolia* A. & S.,

Fls. pinkish brown - (SEE pickle)

①



VCty, PACARA - FLD. SAMBOA 3/20/47

4451 - ONCIDIUM STIPITATUM - S & P. yellow, blotched  
red-brown - frontal & lateral lobes of lip BRIGHT  
yellow on BOTH SURFACES. Callus slightly blotched  
tan. (see pickle) (1)

VCty, CASA COLORADA - Hills South of MANAHO,  
NICARAGUA - 1000 FT. FLD. SAMBOA 4/1/47

4452 - ONCIDIUM STIPITATUM ? - S & P. yellow - Spotted  
red-brown - lip yellow on BOTH SURFACES  
excepting red & central line of red dots on  
underside - (1)

VCty, DAVID - CHIRIQUI PROVINCE - FLD. SAMBOA  
3/20/47

4453 - ONCIDIUM STIPITATUM - ? - S. & P. heavily blotched.  
red-brown. Frontal & lateral lobes of lip yellow.  
Callus brown - undersurface of frontal lobe of  
lip heavily spotted red-brown - (see pickle) (1)

Hills near "LA JOYA" - PANAMA PROVINCE -  
4/13/47

4454 - BIGNONIACEAE - 2000 ft. high - FLD. SAMBOA - (4)



Cerro Campana - 2000 ft. Flo. Amber 3/20/47

4455 - *Trichocentrum* -

①

vcy. al. Zamorano - Honduras - Flo. Amber  
3/20/47

4456 - *Epidendrum encicoides* - on pines - S. P.

Red-brown. Lateral lobes of lip pale green -  
tinged purple on outer surfaces. Frontal lobe  
pale yellow, strongly veined purple. Column  
white, shading to purple at base. Antenna  
pale yellow - (see picture)

①

vcy. Pico - Flo. Amber 4/10/47

4457 - *Oncidium stipitatum* -

①

Rio Tapachula - Honduras - Flo. Amber  
4/20/47

4458 - *Notylia pentachne* -

②

vcy. National Airport - 4/13/47

4459 - *Voentzia faravoniana* - tree - 15 m. Fls. orange ②

4460 - *Jacaranda copaia* - tree - 20 m. Fls. blue ②

4461 - *Byrsonia crassifolia* - tree - 10 m. Fls. yellow ②



HILLS NEAR LA JOYA - 2000 FT. 4/13/47

4462 - JACARANDA COPAIA - TREES - 20 m. FL. BLUE - (10)

CURRO PASITA - HILLS NORTH OF EL VALLE  
1200 m. FL. RAMBOA 4/2/47

4463 - EPIDENDRUM TROYO BANDA KRAMZ. - S. N. P.  
pale GREEN, Lip WHITE - (SEE picture) (1)

4464 - SOBRALIA BOUCHAI A. & S. (SEE picture) (1)

HILLS NEAR RAMBOA, C. Z. 300 FT. 4/18/47

4465 - JACARANDA COPAIA - TREES - 20 m. FL. BLUE - (2)

HILLS NEAR PEDRO TMINCH - C. Z. 300 FT.  
4/20/47

4466 - JACARANDA COPAIA - TREE - 20 m. FL. BLUE - (4)

YCTY, TMADEEN DAM, C. Z. 150 FT.  
4/18/47

4467 - JACARANDA COPAIA - TREE - 20 m. FL. BLUE - (3)



BALBOA, C.R. 4/20/47

4468 - TREE - 20 m. CULTIVATED AS PALTOPHORUM  
FERRUGINEUM - Fls. yellow - (4)

4469 - EPIDENDRUM CYCLOIDES - S. & P. GREEN - LIP  
GREENISH WHITE, COLUMN MARKED RED-BROWN -  
(see pickle) (1)

EL VALLE - FLOOR - 1800 FT. 4/8/47

- 4470 - ANDIRA INERMIS - TREES - 12 m. Fls. <sup>PINKISH</sup> LAUREA. (5)  
4471 - CASSIA FRANCOIS - TREE - 15 m. Fls. PINK. (4)  
4472 - ANDIRA JAMAICENSIS - TREE - 10 m. Fls. PINK. (1)  
4473 - PASSIFLORA - Fls. GREENISH WHITE. (3)  
4474 - SAPINDACEAE - VINE - IN SECOND GROWTH SCRUB, (2)  
4475 - VINE - (4)  
4476 - SCAPHYLOTTIS - (1)

HILLS SOUTH OF EL VALLE - 2500 FT. 4/8/47

4477 - TABEBUIA HETEROTRICHIA (DC) Hance L. - TREE  
15 m. Fls. yellow - (2)



EL VALLE - LOMA DEL TIJUE - 1000 m. 4/8/47

- 4478 - *CARICA* sp. TREE - 6 m. in heavy forest - (2)  
4479 - *CALYPTROGYNIS* - UNDERBUSH OF LEAVES RED - (1)  
4480 - *EPIDENDRUM* *EXCISIOIDES* - SPP. P. TAN. LIP WHITE,  
MARKED PURPLE - (SEE PICKLE) (1)  
4481 - *CAECALICIA* - *EPIDENDRUM* SHRUB. 1/2 m. (1)

VCTY, BELUCO - 4/12/47

- 4482 - *ANDIRA* *INERMIS* - TREES - TO 50 FT. FLG.  
LAVENDER - (4)

VCTY, CHORRERA 4/12/47

- 4483 - *TABEBUIA* *HEUROTRICHA* TREE - 18 m. FLG.  
YELLOW - (2)  
4484 - *BYRSONIMA* *CRASSIFOLIA* - TREE - 10 m. FLG.  
YELLOW - TURNING BURNT ORANGE WITH AGE  
VERY COMMON. (2)

VCTY, SINUATEPEQUE, HONDURAS - 5000 FT.  
FLO. RAMBOA 3/20/47

- 4485 - *BLATIA* - SPP. P. TANNY - FRONTAL LOBE OF  
LIP PURPLE - WITH RAISED YELLOW KEELS, THE  
LATERAL LOBES STAINED RED ON THE INNER  
SURFACES - (SEE PICKLE) (1)



Cerro Chupana - 2000 ft. Flo. RAMBOA 4/2/47

4486. *Epidendrum ionophlebium* RHB. F. - S. & P. GREENISH  
WHITE - lip WHITE, lined <sup>RADIAL</sup> purple - (SEE picture) (3)
4487. *Platrotallis* - fls. CREAM WHITE - (1)
4488. *Oncidium stipitatum* - (1)

VCTY. ARRANJAN - 4/12/47

4489. *Jacaranda rhombifolia* B. F. W. May. - TREE -  
20 m. FC. BLUE, WITH WHITE SPOT INSIDE  
COROLLA - (FLOWERS ONLY) (1)

VCTY. CHORRERA - 4/12/47

4490. CORN - CULTIVATED AT OUTSKIRTS OF TOWN - USED  
TO FATTEN PIGS & CHICKENS - OWNERS SAY THEY  
HAVE BEEN THERE BUT A SHORT TIME &  
THIS IS THEIR FIRST CORN CROP. PURCHASED  
SEED FROM A NEIGHBOR -

EL VALLE - VCTY. LA MESA - 1000 ft. 4/8/47

4491. CORN - COMMON YELLOW - SMALL EARS -

NOTES TO HERE SENT WOODSON 5/7/47



MAIN ROAD - VERY SUMMIT - 5/4/47

- 4492 - *BODMANIA AEscULIFOLIA* (HBK) STANDISH  
(SEE FOSBERG 27394) TREE - 12 m.  
Fls. TAN - (9)

Cerro Pasita - EL VALLE DE ANTON - 3500 FT.  
5/12/47

- 4493 - Bromeliad - TERRESTRIAL ON STEEP BANKS - (1)  
4494 - *MELASTOMACEAE* ?? - TERRESTRIAL HERB - (1)  
Fls. BRIGHT PINK -  
4495 - *Asclepiad* - CORKY VINE - Fls. yellow - (4)  
4496 - Epiphytic SHRUB - 6 FT. Fls. purple - (2)  
4497 - TREE - 10 FT. Fls. yellow - (1)

Cerro Pasita - 3000 FT. 5/12/47

- 4498 - TREE - 30 FT. Fls. white - (18)

Cerro Pasita - 2000 FT. 5/12/47

- ORANOSIA PANAMENSIS*  
4499 - *LEUCOME* - *ANDIRA* ? - VERY LARGE TREES -  
90 FT. Fls. LAVENDER - FRISKY  
COMMON - (20)



EL VALLE CHIRIQUITO - <sup>1800 FT.</sup> FLD. TAMBOA 5/14/47

4500 - CYCNOCHAS DIANAE - (SEE PICKLE) (2)  
S & P. GREEN - SPOTTED RED-BROWN - LIP WHITE.

YCTY, DAVID - CHIRIQUI PROVINCE - FLD.  
TAMBOA 4/29/47

4501 - EPIDENDRUM - AFF. E. TANGENSE - S & P.  
GREENISH YELLOW TO TAN. LIP WHITE -  
(SEE PICKLE) SEE PHOTO - (6)

YCTY, PACORA - 150 FT. FLD. TAMBOA 5/8/47

4502 - CATASETUM VIRIDIFLAVUM - (STAMINATE FL.) (1)

CERRO CAMPANA - 2500 FT. FLD. TAMBOA 4/23/47

4503 - PLEUROTHALLIS - FLs. TRANSLUCENT - S & P.  
& LIP. HEAVILY STRIPED & SPOTTED PURPLE - (1)  
(SEE PICKLE)

YCTY, PROGRESO - CHIRIQUI PROVINCE <sup>500 FT.</sup> FLD.  
COLL. HARRY DUNN - 5/9/47

4504 - CATASETUM MACROCARPUM - LIP VERY HEAVILY  
SPOTTED RED-BROWN. S & P. VERY DARK  
RED-BROWN - (SEE PICKLE) (1)



YCTY. REMARIOB - CHI'RI'PUI PROVINCE - 100 FT.  
FLD. LAMBOA 5/9/47

*Oaristail*

4505 - *CATASETUM* ~~MACROCARPUM~~ - LIP GREEN - LIP LIP  
SPOTTED RED-BROWN - S.I.P. SPOTTED RED-BROWN -  
(SEE PICKLE) *Oaristail* (1)

4506 - *CATASETUM* ~~MACROCARPUM~~ - SMALL FLD. DARK  
PHASE - (1)

CARRO TUTE - HILLS WEST OF SANTA FE  
VERA LUIS - 2500 FT. FLD. LAMBOA 5/9/47

4507 - *STANHOPEA* *POLLA* ? - SEALS PINK YELLOW  
PETALS YELLOW, LIP TAN - MARKED & MARKED  
RED BROWN - REDDISH BROWN CALLUS -  
(SEE PICKLE) Common <sup>SEE</sup> PHOTO (1)

4508 - *ELLEANthus* - *Hymenophyllum* REHB. F.  
FLR. YELLOW - LIP EDGED ORANGE - (1)

4509 - *PERCATORIA* *CARINA* REHB. F. (1)



CASITAS, DEPT. DEL PARAISO 2500 FT.  
HONDURAS - ~~NOTES SENT~~  
~~SOMATO - DEPT. DE MARATHU AT TOWN IN 22-26~~

Very. ~~at 24 m. deep~~ - ~~Horizontal~~ 2500 ft.

FLD. SAMBOA 5/14/47

BRASSAVOLA CUCULLATA R. BR.

- 4510 - *Lipidodermum* - Leaves terete - S & P. yellow,  
NARROWLY EDGED BROWN - FRONTAL LOBE ♂ - Lip  
yellow - NARROWLY MARGINED BROWN - LATERAL  
FRINGED LOBES. ♂ - Lip & column PURE WHITE -  
(SEE PICKLE) ALSO SEE PHOTO - (1)

Carro Pata'ya - 3500 ft. 5/12/47

- 4511 - *Cyclanthera* - Stout epiphytic plant - common. (2)

very. Summit, C. 2. 5/18/47

- 4512 - RUBIACEAE - TREE - 20 FT. Flr. creamy white,  
FRAGRANT - Fairly frequent in clear second  
growth along road - (10)

RECTY. BEWCO - 5/22/47 - dry, peat'ous  
SCRUB -

- 4513 - LANTANA - SHRUB - 4 FT. Flr. very pale pink.  
COMMON - (2)

- 4574 - *Stigmaphyllon ellipticum* (HBK) Juss.  
Vine - fls. yellow - (1)

- 4515- <sup>BURSERA TOMENTOSA</sup> PROTIUM ? - TREE - 15-20 FT. Deciduous during  
dry season - sometimes used for fence posts - common - (L)



YCTY. Summit, C. 2. 500 FT. Heavy Forest -

5/23/47

- 4516 - CORKY VINE - FLS. DULL RED - <sup>very</sup> Sap caustic. (10)  
Asclepiad -
- 4517 - TURNERA PANAMENSIS URBAN - SHRUB -  
8 - 10 FT. FLS. ORANGE - very showy - (10)
- 4518 - MELASTOMACEAE - SHRUB - 8 - 10 FT. FLS. WHITE -  
very common on edges of scrub in ATINEA  
KRASS - (3)
- 4519 - MELASTOMACEAE - Small rounded tree -  
20 FT. FLS. WHITE - (4)

ANCON Hill - C. 2. 200 FT. 5/24/47

- 4520 - TABESUA HETEROTRICHA TREE - 60 FT. FLS.  
yellow - (1)
- 4521 - ANNONA - SPREADING DECIDUOUS TREE -  
25 FT. (1)

Pacific lowlands - Fld. Coll. KRASS FAIRCHILD -  
5/29/47

- 4522 - ONCIDIUM - PLANTS IDENTICAL WITH O. PANAMENSE -  
S & P yellow - BARRED BROWN - lip BRIGHT yellow -  
see photo & pickle - (1)



Cerro Campana - 2000 ft. Flo. Nambuoa 5/23/47

- 4523 - *Epidendrum eburneum* Rob. F. - Sepals pale tan -  
Petals pale cream yellow - lip pure white - , with  
Basal BRIGHT yellow callus - (see pickle & photo) ①  
growing on rocks in full sun -

Yoty, Pacora - 50 ft. Flo. Nambuoa 5/14/47

- 4524 - *Catasetum viridiflavum* Hook - 3 sp.  
GREEN - lip GREEN - with SLIGHT yellow shading  
on inner surface - (see pickle) ①

Rio Tereheche, Honduras - Flo. Nambuoa 5/14/47

- 4525 - *Epidendrum coelestium* L. - 8 sp. pale green  
OUTER <sup>SURFACE</sup> 2/3 lip deep purple - Basal 1/3 pale  
GREEN - inner SURFACE of lip 2/3 deep purple  
1/3 base white, with purple lines - center  
of lip with yellow wash over purple -  
(see pickle) ①

Rio Mata Honda - 1500 ft. Yoty, El Valle  
Flo. Nambuoa 5/14/47

- 4526 - *Dyckia Brewispatha* Kl. - Sepals very  
pale green - spotted pink - Petals & lip white, spotted  
pink - (see pickle & drawing) ①



HILLS SOUTH OF MANAGUA, NICARAGUA - 1000 FT.

FLD. MANABOA 5/18/47 -

4527 - BRASSAVOLA - S & P. pale green - lip white - ①

UPPER RIO CHICO - DARLEN PROVINCE - 6/13/47

4528 - CORN - MEDIUM SIZED EARS, GRAINS BLACK & DARK RED - Kept SEPARATE & USED FOR CHICHA -  
with NOT pop.

4529 - CORN - LARGE EARS - GRAINS ORANGE - FOUND IN MIXED LOT -

4530 - DARLEN - DWARF yellow - with scattered purple & black GRAINS - FOUND IN MIXED LOT. A Pop CORN - BETTER THAN 4531 - BEST

4531 - CORN - DWARF RED - A CHICHA CORN - ALSO A Pop CORN - ALTHOUGH APPARENTLY NOT USED IN DARLEN AS SUCH - POPs well.

4532 - CORN - LARGE GRAINED DARK ORANGE - THIS WAS BEING GROUND TO MAKE A SWEET PASTE - SEE DIARY & PHOTO -

4533 - CORN - DWARF - GRAINS PINK TO DARK RED - FOUND IN MIXED LOT - WITH NOT Pop

4534 - CORN - LARGE EAR - LARGE GRAINS - purple, yellow & white - in mixed lot -



4535 - CORN - DWARF EAR - purple, white, red  
& TAN GRAINS - IN MIXED LOT -

4536 - CORN - SHORT STOUT EAR - purple, white,  
yellow & pink grains -

4537 - MEDIUM SIZED EAR - GRAINS ALL NEARLY  
BLACK - VERY UNIFORM ROWS - IN MIXED LOT -  
works NOT pop.

4538 - CORN - DWARF EARS - GRAINS DARK ORANGE, WITH  
SCATTERING GRAINS OF A VERY DARK RED -  
IN MIXED LOT. Also A pop CORN - BETTER THAN  
NO. 4531

4539 - DWARF EARS - GRAINS - purple, DARK pink,  
& white - IN MIXED LOT -

4540 - CORN - MEDIUM SIZED EARS - GRAINS - mixed  
red & black - mixed IN BIN WITH 4528

4541 - CARRI'BEAN yellow -

4542 - CORN - LARGE EAR - ORANGE GRAINS - IN  
mixed lot -

4543 - CORN - LARGE EAR - ORANGE & BROWN GRAINS  
IN mixed lot -



4544 - CORN - LARGE EAR - ROUND ORANGE GRAIN -

4545 - CORN - SHORT STOUT EAR - ORANGE GRAIN -

4546 - CORN - DWARF EAR - LARGE CHOCOLATE - BROWN  
GRAINS - in mixed lot -

RIO PACORA - VCTY. PACORA - 0 m.  
Fld. Coll. DRABAM FAIRCHILD - 4/15/47

4547 - ONCIDIUM PANAMENSE SCHULT. - Fls. only -  
Pickle only - (1)

CERRO CAMPANA - 2400 FT. - Fld. Coll.  
DRABAM FAIRCHILD - 5/20/47 -

4548 - EPIDENDRUM ONCIDIODES - pickle only. (1)

PACIFIC COAST LOWLANDS <sup>(PACORA?)</sup> - 100 FT. Fld.  
Coll. DRABAM FAIRCHILD - 5/10/47 -

4549 - ONCIDIUM - PSEUDO-BULBS IDENTICAL WITH THOSE  
OF O. PANAMENSE - pickle only (1)

CERRO CAMPANA - 2500 FT. Fld. Coll.  
DRABAM FAIRCHILD 5/1/47 -

4550 - LYCASTE - pickle only - (1)



RIO MATA - ANCHERO - 1200 FT. FLO. COLL.  
GRAHAM FAIKENHIL - 5/15/47

4551 - LYCASTE BREVISPIXA - PICKLE ONLY - (1)

HILLS SOUTH OF EL VALLE - 2000 FT.  
FLO. COLL. GRAHAM FAIKENHIL - 3/12/47

4552 - ONCIDIUM CONFUSUM ? - PICKLE ONLY (1)

HEADWATERS RIO CHICO - DARIEN PROVINCE - 750 FT.  
6/12 - 13/47

4553 - ZAMIA - SHORT TRUNK - NEARLY BURIED IN  
THE GROUND - ABOVE GROUND PORTION ABOUT  
4" - IN HEAVY FOREST - (1)

4554 - ZAMIA - STERILE - TRUNK BRANCHED, 6 FT.  
TALL - SEE PHOTO - (1)

BALBOA, C.R. MAY - 12, 1947

4555 - CASSIA SIAMENSIS - TREE - FL. YELLOW -  
30 FT. CULTIVATED - (2)



VCTY. Summit, C. 2. May 14, 1947

- 4556 - *Melastomae* - SHrub - 5 FT. Fls. white,  
with red stamens - common on cut over  
land - (8)

Cerro Campana - 2000 FT. Fls. RAMBORA 5/26/47

- 4557 - *Stanhopea* - Sp. P. pale yellow, spotted rose  
purple - column broadly winged, termination  
in two horns exceeding the pollinia in  
length, color pure white, flared red-brown -  
lip creamy white, spotted purple - SEE  
pickle & photo - (1)

- 4558 - *Epidendrum* - aff. *E. FRANKS* - Sp. P. creamy  
white, lip white, with purple stripes  
FRANKS - SEE pickle - (2)

Cerro Campana - 2500 FT. Fls. RAMBORA  
6/20/47

- 4559 - *Cranio* - epiphytic - Fls. pure waxy white,  
inner lip waxy & spotted yellow - SEE  
plate, pickle & photo - FRANKS - (1)



Hills EAST OF PANAMA CITY - VCTY. 05° PANAMA  
1000 FT. Flo. AMBOS 6/3/47

4560 - BRASSIA - SEE PICKLE - PHOTO & SKETCH ①  
2 - LEAVES

EL VALLE - LOMA DEL TIENE - 3000 FT. Flo.  
AMBOS 5/26/47

4561 - EPIDENDRUM, AFF. E. NOCTURNUM - ①

4562 - BRASSIA LANCEOLATA? ONE LEAF - SEE PHOTO,  
PICKLE & SKETCH - S & P. GREENISH ①  
Yellow, blotched red-brown near base.  
Lvs pale yellow, spotted red-brown in central  
basal portion - SUTURE ON CHEST ORANGE -

EL VALLE - CERRO PASITA - 3400 FT. Flo.  
AMBOS 5/28/47

4563 - PLATYCHILIS AFF. P. COCODRILLOEYES - ②

CERRO TUTE', RENTON WEST OF SANTA FE  
VERACRUZ, - 2500 FT. Flo. AMBOS 5/26/47

4564 - PESCATORA CERINA - ②



Cerro Tute - Region West of Santa Fe Veraguas  
3000 ft. Flo. RAMBOA 6/20/47

CATABETUM SUAVE A.F.S.

4565 - ORCHID - Epiphytic - identical in VEGETATIVE  
appearance with NO. 4559 - Fls. pure  
waxy white. Inner lip spotted purple.  
Strongly scented, like a cheap brand  
of soap. See photo & sketch - pickle. (1)

4566 - *Episcoroides difformis* - Fls. green. - (1)

Vcty. Santa Fe - VERAGUAS PROV. 1000 ft.  
Flo. RAMBOA 6/24/47

4567 - *Lycaste brevispatha* - ON TREES ALONG RIVER - (1)

Rio Tepencetlin - HONDURAS - Flo. RAMBOA  
6/24/47

4568 - *Episcoroides coccineum* - (1)

4569 - *Cyclopogon dianae* - (see pickle) (1)



SIRUATEPEQUE - HONDURAS - 5000 FT. - ON  
PINES - FLD. RAMBOA 6/12/47

4570 - TAXILLARIA - Fls. yellow - (see pickle) (2)

CARRO UYUCA - VCTY. EL ZAMORANO - HONDURAS -  
5000 FT. FLD. RAMBOA 5/26/47

4571 - CATASEIUM - (CHECKED) <sup>MEXICO TO HONDURAS.</sup>  
S 19 P. PALS GREEN, DIRTILY  
SPOTTED RED-BROWN - LIT GREEN ON OUTER  
SURFACES, DARK RED-BROWN WITHIN -  
SEE PHOTO & PICKLE. (2)  
(Pickle deposited in the AMES HARB. collection)

VCTY. RAMBOA - 5/26/47

4572 - FONOPSIS UTRICULARIODES - SEE PICKLE (1)  
Fls. LAVENDER -

VCTY. SUMMIT, C. 2. 6/25/47

4573 - STRYCHNOS PARMENSIS <sup>SEEM</sup> WOODY LIANA -  
Fls. WHITE - FRAGRANT - (9)



Rio Chico, v. y. Yaviza, DARIEN PROVINCE -  
6/9-11/1947

- 4574 - COSTUS - 9 FT. BRACES RED - (1)
- 4575 - Bromeliad - PITCAIRNIA, FORMING DENSE  
COLONIES ON STEEP BANKS ABOVE RIVER. (1)
- 4576 - TREE - 30 FT. FL. WHITE, RUBIACEAE - (10)
- 4577 - BIXIONACEAE - WOODY Liana - FL. MAuve -  
"TORTUGA" (6)
- 4578 - APEIBA ASPERA - TREE - 60 FT. FL.  
YELLOW - (6)
- 4579 - ARDISIA <sup>PALMATA</sup> - TREE - 30 FT. FL. VERY PALE  
PINK WITH YELLOW STAMENS - (6)
- 4580 - LAURACEAE - TREE - 25 FT. FL. WHITE -  
"SIDUA" (16)
- 4581 - LANTANA - SHRUB - 6 FT. FL. ORANGE - (2)
- 4582 - CHIBADIVA - SHRUB - 6-8 FT. FL. WHITE -  
VERY COMMON - LEAVES REPORTED TO BE USED  
AS A FISH POISON - (4)
- 4583 - RONDELATIA? Small TREE - 12 FT. FL. WHITE.  
IN HEAVY FOREST - (2)
- 4584 - SELAGINELLA - FORMING TALL THICKET COLONIES  
IN WET, SHADY places - (2)
- 4585 - INOA <sup>CALANSIANA</sup> - TREE - 60 FT. FL. WHITE - (6)



- 4586 - TREE - 60 FT. REPORTED AS NOT BEING  
USED FOR RUBBER. (3)
- 4587 - WOODY HERB - 8 FT. WEAK NERVE. "HUI-CHI-CHI" (1)
- 4588 - VITEX <sup>MAYONIANA</sup> - TREE - 75 FT. ON LOW ROCKY  
RIDGES ABOVE RIVER. FL. BLUE - INFREQUENT.  
"PU-PU-CHIRU" (8)
- 4589 - FIGS - TREE - 65 FT. COMMON ALONG  
RIVER BANKS. (3)
- 4590 - AEROID - TERRESTRIAL, ON STEEP BANKS -  
SPATHE GREEN - SPADIX YELLOW - INFREQUENT. (1)
- 4591 - HURA CREPITANS - FL. RED - TREE 65 FT.  
COMMON - (1)

DARLEN PROVINCE

HEADWATERS RIO CHICO - 750 FT. 6/12-13/47.

- 4592 - UREA - SMALL TREE - 20 FT. IN WET, DARK FOREST.  
FRUITS WHITE. A MILD NERVE. (2)
- 4593 - THEOBROMA <sup>CHOCOMA WOODSON</sup> - TREE - 35 FT. FL. DARK RED.  
CULTIVATED BY CHICO INDIANS - "CU-LU-HU" (3)
- 4594 - TUSSACIA - HERB - 20 INCHES - FL. ORANGE,  
STRIPED DARKER ORANGE - IN BANANA PLANTATIONS. (3)
- 4595 - TREE - 30 FT. FL. YELLOWISH-TAN. (2)
- 4596 - JACARANDA RHOMBIFOLIA - TREE - 45 FT.  
FREQUENT - (1)



- 4597 - *Renanthis* - 6 ft. BRACTS RED - (1)
- 4598 - *Cephaelis* - BRACTS RED - SHRUB - 5 ft. (1)
- 4599 - *Melastomaceae* - SHRUB - 10 ft. FRUITS RED - (2)
- 4600 - *Sapindaceae* - WOODY LIANA - FRUITS RED - (3)
- 4601 - *Bunchosia* <sup>CORNFOLIA</sup> - TREE - 30 ft - FRUITS yellow - (3)
- 4602 - *Melastomaceae* - SHRUB - 6 ft. FL. PINK - (2)
- 4603 - *Piper* - WOODY HERB - 20 ft. COMMON - (3)
- 4604 - *Dilleniaceae?* - TREE - 25 ft. FRUIT purple -  
FL. pale green - (4)
- 4605 - *Benthamia* - HERB - in BANANA plantations  
FL. white - (2)
- 4606 - *Leavenworthia* - BLUNT WOODY LIANA - BUDS BROWN -  
FL. greyish lavender - (10)
- 4607 - *Swartzia* - TREE - 40 ft. FL. yellow - (2)
- 4608 - *Coumarouna javanensis* - TREE - 120 ft.  
FL. pinkish lavender - FREQUENT - (8)
- 4609 - *Lipikylum* - EPiphytic - FRUIT RED - (1)
- 4610 - *Bromelia* - BRACTS RED - EDGED WHITE -  
FL. white - SEE *Kodakone* - FREQUENT - (1)
- 4611 - *Cordia* - ON ROCKY BANKS - IN SUN - FL.  
purple - (4)
- 4612 - *Melastomaceae* - SHRUB - 3 ft. - ON WET,  
SHADY BANKS - FL. pink - (3)
- 4613 - *Draes* - COMMON ON LEAVY BARS - (1)
- 4614 - *Dorstenia* - ON WET BANKS - "P. DA. P. DA" (3)



- 4615 - TREE - <sup>TRAMMA INTERMEDIATA</sup> 40 FT. FL. GREEN - FAIRLY FREQUENT  
ALONG RIVER BANKS ON RIDGES ON BARBERS PLANTATIONS. (1)
- 4616 - WEEDY HERB - COMMON ON GRAVEL BANKS -  
FLS. WHITE - (1)
- 4617 - TREE - 15 FT. FL. ORANGE - IN HEAVY FOREST - (2)
- 4618 - WEEDY HERB - COMMON ON GRAVEL BANKS -  
FLS. YELLOW - (2)
- 4619 - TINY HERB - ON WET, EXPOSED ROCKS - FL. LAVENDER. (1)
- 4620 - SELAGINELLA, COMMON ON WET S'MARO BANKS - (1)
- 4621 - RUBIACEAE - CREEPING HERB - COMMON ON WET  
FOREST FLOOR - FL. WHITE - (3)
- 4622 - RUBIACEAE - HERB - 24 INCHES - FL. WHITE.  
IN DARK FOREST - (1)
- 4623 - RUBIACEAE - TREE - 15 FT. FL. WHITE - (3)
- 4624 - BENNETTIACEAE - HERB - 18" - FL. PURPLE.  
UNDERSURFACES OF LEAVES PURPLE - (2)
- 4625 - MELIACEAE - TREE - 50 FT. FL. WHITE - (3)
- 4626 - CUCURBITACEAE - VINE - FL. YELLOW - (1)
- 4627 - OCIMUM - CULTIVATED BY CHACO INDIANS -  
USED TO RUB ON BODY DURING DANCES - (3)
- 4628 - COMPOSITE - GIANT WOODY LIANA - (4)
- 4629 - CALADIUM - VERY COMMON ON STEEP, S'MARO  
BANKS - SPATHE WHITE - (2)
- 4630 - TREE - 25 FT. FL. WHITE, WITH YELLOW  
STAMENS - FAIRLY COMMON IN HEAVY FOREST. (3)  
MAYNA LONGICORPIS



4631 - TREE - TO 40 FT. FL. WHITE - FREQUENT -

"PU-LU-NA" QUARRARIBA STENOCHYA

(5)

4632 - TREE - 75 FT. FL. WHITE - BARK SMOOTH. TRUNKS

AN OVAL OR SOMETIMES SQUARE, PARTICULARLY FOR  
THE LOWER 6-8 FT. BRANCHES DROPING, SLIMELY  
REMINISCENT OF A CONIFER. VERY COMMON  
IN HEAVY FOREST. MAY BE LUNA'S SQUARE

TREE - QUARRARIBA DARIENENSIS WOODSON

(8)

4633 - CUCURBITACEAE - VINE - BRACTS SCARLET - FL.

BRIGHT YELLOW -

(5)

4634 - TREE - 40 FT. FRUIT YELLOW -

(4)

4635 - ANNONACEAE - TREE - 12 FT. FL. GREEN - IN

DARK WET FOREST -

(1)

4636 - MELIACEAE - TREE - 25 FT. FL. CREAM YELLOW -

PROBABLY IDENTICAL WITH NO. 4625 -

(3)

4637 - CONVULVACEAE - VINE - FL. PURPLE -

(1)

4638 - BORAGINACEAE - WOODY LIANA - FRUIT WHITE -

(1)

4639 - LEGUMES - GIANT WOODY THORNY LIANA - FRUIT

ONLY Y. OLD DRIED FL.

(2)

4640 - RUBIACEAE - TREE - 30 FT. FL. WHITE -

(3)

4641 - CAYOSOPHILA - COMMON FOREST PALM - 8-12 LIVE

FRONDS - TRUNKS GRAY - 3-4" DIAM. "ESCOBA"

(1)

4642 - LEGUMES - TREE - 65 FT. FL. WHITE -

FREQUENT - LEUCENA MULTICAULATA SCHAUER

(4)

4643 - DIOSCOREA - FL. DARK PURPLE -

(2)



PROTIUM

- 4644 - ~~Alaphia~~ - tall slender tree in heavy forest -  
 red - peeling bark - "Huf-chick" (3)
- 4645 - <sup>Qualea cymulosa</sup> LEAVES - TREE - 100 FT. FL. ROSE PINK - (14)
- 4646 - <sup>Acacia tanujolia</sup> LEAVES - HAVE WOODY LIGNUM, IN TREES 90  
 FT. TALL. THIN CYLINDRICAL, SPRING - 4-5"  
 DENSE FL. WHITE - (5)
- 4647 - CONVULVACEAE - VINE - FL. PURPLE - (2)

NOTES TO HAVE SENT WOODSON 7/4/47

CARRO TUTE - REGION WEST OF SANTA FE, VERACRUZ  
 3000 FT. FRO. DAMBOA JUNE 24, 1947

- 4648 - ACROPERA - SEPALs pale cream, minutely spotted  
 red - petals rich dark red - column pale cream,  
 minutely spotted red. Lip orange, with dark  
 red tip - see photos, plate & pickle - (1)

- 4649 - EPIDENDRUM - Sp. P. stem - Lip white, with  
 lavender crest - (see pickle) (1)



Y City, BOPUET - LUNAR ROAD EAST OF RIO UABEA  
- 4500 - 6500 FT. July 23, 1942

- 4650 - Saurauia - SHrub - 10 FT. Fls. white - (1)  
4651 - Legume - SHrub - 10 FT. Fls. Red - Frequent. (4)  
4652 - Composite - Stout Herb - 6 FT. Fls. yellow. (1)  
4653 - Clitandium - SHrub - 12 FT. Fls. white - common (3)  
4654 - Boraginaceae - ATching SHrub - 8 FT. Fls. white - (3)  
4655 - Apitaceae - Tree - 30 FT. on steep banks - (4)  
4656 - Heliconia, with garlanded Bracts. Scarlet, fls. yellow -  
Frequent - ALSO near LURIA & BALO MARO - (4)  
4657 - LAURACEAE - Tree - 50 FT. - (4)  
4658 - Tree - 60 FT. - (4)  
4659 - LANTANA - BUSHY SHrub - 8 FT. Fls. pink - (4)  
4660 - LANTANA - Fls. Red & yellow - 3 FT. common (1)  
4661 - Asclepiad - Vine. Fls. GREENISH yellow - (6)  
4662 - Polydora - Stout woody Herb - 5 FT. Fls. Blue  
& yellow - common - (2)  
4663 - SAURAUIA - Tree - 15 FT. Fls. white - (3)  
4664 - Tree - 60 FT. Fruits GREENISH GREEN - (4)  
4665 - Malesherbiaceae - Tree - 30 FT. - Very common (2)  
4666 - Lockhartia - Fls. yellow - Frequent (1)  
4667 - Tree - 40 FT. Frequent - MYRTACEAE (3)  
4668 - Epiphytic orchid - Sp. in ORCHARD - Lip creamy white (1)



Very. Finca Landa. FORESTED VALLEYS - (El Volo) 5000 M.

July 24, 1947 -

4669 - RUBIACEAE - Lax SHRUB - 6 FT. FRUITS PINK - (4)

4670 - TREE - 40 FT. FL. CREAMY WHITE - (6)

4671 - SAURAU - Small multiple-trunked tree - 10 FT.  
Fl. white - frequent - (4)

4672 - TREE - 120 FT. LAURACEAE - (5)

4673 - LOBELIACEAE - Stout AERIAL HERB - 5 FT. Fl. ROSE  
PINK - frequent - (1)

4674 - XANTHOSOMA RUBRUM - 6-8 FT. Very common along  
stream bed - forming continuous colonies - <sup>SPARSE</sup> white - (1)

4675 - CARICA - 20 FT. Fl. pale green - FRUITS ROTTEN,  
about 6" in length & 5" in diameter - (3)

4676 - TREE - 80 FT. (3)

4677 - Epiphytic Bromeliad - very common in tops of tall  
trees - (1)

4678 - TREE - 40 FT. Fl. TAWNY CHOCOLATE <sup>NOT</sup> common - (4)

4679 - Clivadium - SHRUB - 10 FT - common on edges of  
clearings - fl. white - (2)

4680 - HERB - 3 FT. Fl. SALMON - fl. - very common - (3)

4681 - RUBIACEAE - SHRUB - 10 FT. Fl. purple - common - (3)

4682 - AROID - Epiphytic - SPARSE GREEN - FRUITS ORANGE - (1)

4683 - Quercus - TREE - 95 FT. - (9)

4684 - MALVACEAE - TREE - 25 FT. Fl. pale pink - (4)

4685 - COSTUS - 7 FT. BRACTS & FL. BRIGHT yellow - (4)



1947

Rio Lindo - Honduras - Flo. Katmora August 14, 1947

- 4686 - MAXILLARIA - 8 ft. yellow - deep Red - Brewer -  
very common on large trees along the Rio  
Lindo - (1)

5 miles

Stony Plains about 11 - BOPORT - 3000 ft.  
July 22, 1947 | REMOVE THE BYRSONINA, CATARA, WALTHERIA  
9 CALCA MUNICION & THERE WOULD BE LITTLE LEFT.

- 4687 - Herb - Flo. Pink - very common - (5)
- 4688 - MICHAELIA - SHrub - 6 ft. Fruits blue - very common (3)
- 4689 - RUBIACEAE - Creeping Herb - on shaded banks near  
stream - Flo. Blue - Fruits blue - common - (6)
- 4690 - Herb - Flo. purple - common - Composite - (5)
- 4691 - RUBIACEAE - Flo. white - very common - (4)
- 4692 - WALTHERIA - woody Herb - 2-3 ft. Flo. lavender - very common - (2)
- 4693 - BYRSONINA - Tree - 35 ft. very common along small  
stream courses - (3)
- 4694 - RUBIACEAE - Herb - Flo. white - common - (4)
- 4695 - COSMIBUENA - Tree - 30 ft. Flo. white - along river - (4)
- 4696 - RUBIACEAE - SHrub - 8 ft. Flo. white - frequent along  
small streams - (4)
- 4697 - DEBARISSA - IN colonies on shaded banks along  
small streams - upper two parts red  
lower 3 white - common - (4)
- 4698 - ACHIMENES - Flo. blue - on shaded banks along  
small streams - (2)
- 4699 - SHrub - 10 ft. Flo. cream yellow - very common - (4)
- 4700 - Tree - 35 ft. Fruits black - frequent along  
streams - (3)
- 4701 - Russelia - Herb - 5 ft. Flo. red - frequent - (2)



- 4702 - WOODY VINE - FRUITS ORANGE - FREQUENT - (2)
- 4703 - EPIDENDRUM CILIARE - FLS. WHITE - FREQUENT - (2)
- 4704 - SLENDER SHRUB - 10 FT. FLS. WHITE - (6)
- 4705 - <sup>STOUT</sup> PIPER - <sup>SPICES WHITE</sup> HERB - 4-6 FT. STems RED - FREQUENT - (11)
- 4706 - CAMBODIUM - ST. CREAMY WHITE - LIP YELLOW -
- COMMON ALONG SMALL STREAMS - (9)
- 4707 - LORANTACEAE - PARASITIC SHRUB - 3-4 FT. <sup>IMMATURE FRUITS ORANGE</sup> MATURE WHITE - COMMON - (5)
- 4708 - ANDINA INEQUIS - TREE - 30 FT. <sup>FAIRLY</sup> FREQUENT - (4)
- 4709 - TREE - 30 FT. ~~VERY~~ COMMON ALONG SMALL STREAMS - (3)
- 4710 - WOODY HERB - 24-36" - FLS. SALMON RED - <sup>VARY</sup> COMMON - (4)
- 4711 - Fern ally - COMMON IN ROCKY STREAMS <sup>ALSO IN ADJACENT WALLS - DAVID & OR BRADY</sup> - (2)
- 4712 - HERB - FLS. YELLOW - FREQUENT - <sup>ABUNDANT</sup> - (5)
- 4713 - Miconia ARBorea - TREE - 25 FT. VARY COMMON - (1)
- 4714 - TREE - 35 FT. FREQUENT - (2)
- 4715 -

VERY FINCA LERIDA - 5500 FT. 7/21/47  
(FINCA LERIDA)

- 4715 - EPIDENDRUM BRASSANOIAE - FREQUENT - (1)

ELEVATED BARBERS 1 mile south of BOPOKE -  
4000 FT. 7/20/47

- 4716 - CROTON - TREE - 30 FT. <sup>FLS.</sup> FREQUENT - WHITE - (3)
- 4717 - TREE - 35 FT. FLS. PINK - FREQUENT - (6)
- 4718 - SHRUB - 12 FT. FLS. pale yellow - FREQUENT - (4)
- 4719 - Small TREE - 20 FT. FLS. WHITE - FREQUENT - (5)



- 4720 - Composite - woody shrub - 3 ft. Fls. white. (3)
- 4721 - Composite - Shrub - 9 ft. Fls. white. (4)
- 4722 - Gorse - Tree - 40 ft. <sup>Common along trails</sup> <sup>in</sup> <sup>wide rows</sup> <sup>& stream</sup> <sup>valleys</sup> (3)
- 4723 - DENTARIA - Herb - Fls. green - <sup>on steep bank</sup> <sup>in</sup> <sup>pastures</sup> (7)
- 4724 - LEBNICEAE - Fls. white, <sup>inner corolla with dark red</sup> <sup>spots & central yellow stripe</sup> (3)
- forming small colonies in shade - under oaks - (3)
- 4725 - SOBRARIA - S. & P. white - Lip white - central inner throat yellow - woolly - with brown flecks - very common - thousands of plants on steep banks in grass - All flower on same day - SEE PHOTO (2)
- 4726 - Stout Composite - 6-8 ft. <sup>Fls. yellow</sup> very common along road - (3)
- 4727 - Epidendrum Bootbail - Fls. tan - very common - (2)
- 4728 - Shrub - 6 ft. Fls. yellowish green - frequent - (4)

Very. Finca Laria - 5000 ft. 7/21/47

- 4729 - MANKOIA SCORUM - Bushy tree - 40 ft. Fls. white. (3)
- 4730 - CITRAXYLUM MACRODONTIUM - Tree - 60 ft. Fls. white. <sup>fruit black</sup> <sup>"Palo Patona"</sup> <sup>very common</sup> <sup>in</sup> <sup>pastures</sup> <sup>and second growth</sup> - (6)

81 Neg -

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FORESTED SOUTHERN

VERY. RICH LERIDA - UPPER MARTIN ON THE VERO -  
ALONG COTTON - 5000 FT. July 25, 1947.

- 4731 - QUERCUS - TREE - 80 FT. (8)  
 4732 - LERIDA - TREE - 65 FT. <sup>CODORA REFLECTS: TRUNK - 2 1/2 FT. DIAM.</sup> (4)  
 4733 - ORANGE - FLO. PINK - <sup>COMMON WOOD IN COTTON & ALONG</sup> (4)  
 4734 - TREE - 60 FT. FLO. WHITE - FREQUENT (6)  
 4735 - RUBIACEAE - SHRUB - 12 FT. FLO. yellow. <sup>FREQUENT.</sup> (3)  
 4736 - TREE - 75 FT. FREQUENT (7)  
 4737 - TREE - 65 FT. FLO. yellowish green. (7)  
 4738 - LERIDA - <sup>LARGE</sup> (3)  
 4739 - ARDISIA - SMALL TREE - 8 FT. (2)  
 4740 - BORAGINACEAE - LAX SHRUB - <sup>8 FT.</sup> FLO. white. (1)  
 4741 - TREE - 45 FT. (5)  
 4742 - CORNUS - TREE - 45 FT. <sup>FUSCIA ??</sup> COMMON - (4)  
 4743 - LOCK HARTIA - FLO. yellow - <sup>2 - LOWER BRANCHES & CRIST</sup> (3)  
 4744 - RUBIACEAE - <sup>BURAY</sup> EPiphytic shrub - 6-8 FT. <sup>FLO. - SALMON</sup> pink. (12)  
 4745 - RUBIACEAE - SHRUB - 12 FT. FLO. pale pink - <sup>COMMON</sup> (4)  
 4746 - RUBIACEAE - SHRUB - 12 FT. FLO. purple - (4)  
 4747 - WOODY HERB - 6 FT. FLO. yellow. (3)  
 4748 - BERBERIDACEAE - SHRUB - 6 FT. FLO. ORANGE - (9)  
 4749 - LYCASTE - 8. pale green - petals white. lip white. (3)  
 4750 - EPIDENDRUM PRISMATOCARPUM - <sup>34 FT. pale yellow -</sup> (4)  
 FRUIT LOSE TO LIP MURDER - purple - <sup>SHORT LATERAL</sup> (4)  
 CULTIVATED BY THE MONASTIC FOR YEARS - SAID BY  
 THEM TO BE RARE - FLOWERS AT LERIDA -



- 4751 - CADRETA - TREES - 120 FT. 5-6 FT. DIAM. FREQUENT. (6)
- 4752 - LORANTACEAE - VERY BUSHY PARASITIC SHRUB - 15 FT.  
LEAVES GREENISH TAN - VERY CONSPICUOUS. (5)
- 4753 - SHRUB - 8 FT. FL. CRIMSON WHITE - FREQUENT. (1)
- 4754 - LEGUMINACEAE - WOODY HERB - 8 FT. FL. CRIMSON. (6)

FORESTED RIDGES SOUTH OF FINCA LINDA - 6000-7000  
FT. July 26, 1947 - MUCH OF THIS IS SURPRISINGLY VERY OLD  
SECOND GROWTH - 20-30 YRS. ~~REMARKS~~

- 4755 - DICRANOPHYLLIS - 8-10 FT. VERY COMMON IN BURNED AREAS (2)
- 4756 - TALL, SLender TREE - 60 FT. FL. WHITE - FREQUENT. (10)
- 4757 - EUPHYORBIA - TREE - 65 FT. FL. RED - VERY COMMON. (4)
- 4758 - ~~CAJUMA~~ MEXICANA - TALLER TREE - ST. WHITE - LF. YELLOW - VERY COMMON  
IN BURNED & EUPHYORBIA ZONE - SEE PHOTO - (7)
- 4759 - SMILAX - HOPE MEXICANA - FRUITS CRANberry (2)
- 4760 - TREE - 35 FT. (6)
- 4761 - VINE - FL. WHITE - COMMON IN BURNED AREAS - (10)
- 4762 - LANTANA - SHRUB - 6-8 FT. FL. WHITE - COMMON IN BURNED AREAS. (2)
- 4763 - COLUMBA - BUSHY EPiphytic SHRUB - 3 FT. FL. RED -  
CANES JOINTED - TAN INTERNODES. SWOLLER ANTHODIUM IN NOBILE - (4)
- 4764 - LOCK HARTIA - LF. YELLOW - RED - PETALS 4 - GREAT STAMEN (3)
- 4765 - Bromeliad - LF. GREEN - LOWER 3-4 BRANCHES RED - UPPER 1/3 GREEN. (4)
- 4766 - EPIDENDRUM DIFFORME - FL. GREEN - FREQUENT. (2)
- 4767 - CORNUS - TREE - 50 FT. - FREQUENT. (6)
- 4768 - ~~ERICACEAE~~ - SMALL BUSHY TREE - 8-12 FT. LF. WHITE - FRUIT RED - COMMON ON SARDINA. (14)



- 4769 - LORANTACE - PARASITIC SHRUB - 18" - SPARSELY BRANCHED -  
FRUITS WHITE - LOMA SARDINA - (2)  
4770 - COMPOSITE - HERB - FLs. yellow - very common on <sup>FLOWER HEADS RADIATE.</sup>  
LOMA SARDINA - Y CERRO COPON - (4)  
4771 - SIMARUBA - 8 FT. BRANCHES RED - FLs. RED - TIPPED WHITE -  
COMMON ON SARDINA - (2)  
4772 - BRONCHIA - BRANCHES & FOLIAGE GREEN - (1)  
4773 - BALANOPHORACEAE - ROOT PARASITE - FRUIT - COLLECTED  
UNDER LEAVES - FRUIT DARK RED - <sup>FREQUENT</sup> - (9)  
4774 - BALANOPHORACEAE - ROOT PARASITE - (3)

43 nos.

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WESTERN SLOPES OF CERRO NOROCCO -

BADO MERO - ROBITO TRAIL TO CONTINENTAL  
DIVIDE - 5000 - 7000 FT. JULY 22, 1947

- 4775 - MYRTACEAE - HARD WOODY LIGNA - IN TOPS OF  
TREES - 120 FT. FLs. WHITE - (4)  
4776 - CINCHONA - ? TREES 40' 65 FT. - OFTEN FLOWERING  
FREELY AT 15 FT. FLs. pale pink - <sup>FRAGRANT</sup> FREQUENT - (14)  
4777 - SOLANACEAE - WOODY LIGNA - FLs. yellow <sup>FLs. purple</sup> - (2)  
4778 - FOSCKIA ARBORESCENS - TREE - 30 FT. - (2)  
4779 - TREE - 30 FT. FLs. pale yellow - (2)  
4780 - HERB - 6 FT. FLs. RED - CLIMBER - (5)



- 4781 - BORAGINACEAE - WALKER HARB - 4 FT. FL. WHITE - (3)
- 4782 - SMILACINA - 6 FT. FL. WHITE - (2)
- 4783 - MAXILLARIA - FL. yellow - (5)
- 4784 - <sup>STROT</sup> LEGNERIACEAE - HARB - 6 FT. FL. ORANGE - (3)
- 4785 - <sup>RULINACEAE</sup> TREE - 25 FT. FL. DARK ROSE PINK - (9)
- 4786 - DRYMONIA - EPiphytic HARB - FL. yellow - (5)
- 4787 - Xylobium ELEVATUM - FL. pale yellow - (1)
- 4788 - COLUMNIA - EPiphytic - FL. yellow - <sup>TRICULAR RED</sup> BLOTCHED on leaves - (3)
- 4789 - EPIDENDRUM - FL. TAN - (5)
- 4790 - SOLANACEAE - TRAILSIDE HARB - FL. Blue - Common - (4)
- 4791 - <sup>POLEYPALAPA</sup> HARB - 6 FT. FL. Blue & yellow - (1)
- 4792 - CENTROPOGON - WOODY HARB - 5 FT. FL. ORANGE - (1)
- 4793 - BOHNERA - VINE - FL. RED - <sup>SEEDS SCARLET</sup> - (5)
- 4794 - EPIDENDRUM - S & P. GREEN - leaf white - (2)
- 4795 - LYCOPODIUM - FORMING colonies on STEEP BANKS - (4)
- 4796 - STALIS - FL. PINK purple - <sup>FRAGRANT in tops of</sup> - (2)
- 4797 - SAURAVIA - TREE - 18 FT. <sup>MULTIPLE TRUNK</sup> FL. white - FRAGRANT - (1)
- 4798 - COMPOSITE - HARB 8 FT. FL. <sup>FRAGRANT</sup> - (3)
- 4799 - GINNERA - TALL SHrub - <sup>in wet places along small</sup> - (1)



Very. Bato Momo - Chiriqui Province - 5000 FT.

August 7, 1947

4800 - CORN - WHITE - "CULTIVO"

4801 - CORN - yellow -

Robito trail - northern slopes of Cerro Mercuria -  
6000 - 7000 FT. Bocas del Toro Province - 8/6/47

4802 - ANNONACEAE - TREE - 100 FT. FB. GREEN - (8)

4803 - EPiphytic SHrub - 12 FT. FB. pale greenish yellow - (3)  
in tops of plant trees -

4804 - EPiphytic SHrub - 6 FT. FB. PINK - (8)  
in tops of plant trees -

4805 - CYCANTHEAE - EPiphytic HERB - (1)  
in tops of plant trees -

4806 - HORTENSIAE - Ruscaceae - woody HERB - 5 FT. FB. yellow - (2)  
BRACTES DUNK PURPLE

4807 - ERICACEAE - EPiphytic SHRUB - 3 FT. FB. lavender - (4)

4808 - ERICACEAE - EPiphytic BRANCHING SHRUB - 15-18 FT. (9)  
4 calyx corolla  
Petioles vivid pink - ~~FB.~~ PORE WHITE

Bato Momo - Robito trail - 5000 - 7000 FT. 7/27/47  
western slopes of Cerro Mercuria - Chiriqui Province

4809 - BERBERIS - STEUT HERB - 5 FT. FB. WHITE - (3)

4810 - LOBELIACEAE - TRAILSIDE SLender HERB - 3 FT. FB. purple - (1)

4811 - LOBELIACEAE - HERB - 4 FT. FB. RASIN purple - (1)  
BRANCHES

4812 - POLYPODIACEAE - WOODY VINE - FB. GREEN - (1)



- 4813 - Composite - Woody Herb - 6 ft. Fl. white - (4)
- 4814 - <sup>CROCIIFERAE</sup> Herb - 12 ft. - Fl. white - common - (1)
- 4815 - Thespsyllina - Epiphytic - Bright Red - (1)
- 4816 - Fuschia - Shrub - 4 ft. Fl. Red - (4)
- 4817 - Melastomaceae - Shrub - 4 ft. <sup>Rachis &</sup> Fl. Dark Red - (10)
- 4818 - Lobeliaceae - Epiphytic Herb - 2 ft. Fruit purple. Very conspicuous & frequent. (4)
- 4819 - Melastomaceae - Shrub - 6 ft. <sup>Rachis Red - leaves &</sup> stems with red pubescence. Fl. Blood Red. (5)
- 4820 - Columna - Terrestrial on roadside banks or epiphytic. Fl. Red - frequent. (6)
- 4821 - Composite - Woody Herb - 10 ft. Fl. purple - (4)
- 4822 - Epiphytic Shrub - 6 ft. Fl. Bright Orange <sup>frequent.</sup> (5)
- 4823 - Melastomaceae - Shrub - 6 ft. <sup>Rachis lavender.</sup> Fl. pink. (3)
- 4824 - <sup>woody</sup> Cyphalium - Herb - 4 ft. <sup>Bracts reddish brown.</sup> Fl. purple - frequent. (6)
- 4825 - Urticaceae - Fluffy Herb - 3 ft. <sup>Fl. white.</sup> frequent. (5)
- 4826 - Dcenariaceae - Herb - 4 ft. <sup>calyx Red.</sup> Fl. bright yellow. (4)
- 4827 - Composite - Shrub - 8 ft. Fl. white - (2)
- 4828 - Solanaceae - Tree - 12 ft. <sup>Fl. white.</sup> common. (2)
- 4829 - Rubiaceae - Shrub - 8 ft. <sup>3 ft.</sup> Fl. cream yellow. (1)
- 4830 - Woody Herb - Trilobed Herb - Buds more - (1)
- 4831 - Tree - 30 ft. Fl. pale pink - frequent. (5)
- 4832 - Tree - 60 ft. Lauraceae (5)
- 4833 - Columna - Epiphytic - <sup>pendulous stems 8 ft.</sup> Fl. Red - (12)



YCTY. JUAN MORA - Rio Chama - 8/29/47 collected  
By Harold Tripp

4834 - Bromeliad - common on granite rocks - fl. blue - (2)

Bato, Momo - Ropa lo Trail - 5000 - 7000 ft. 8/29/47

4835 - RUBIACEAE - Common TRAILSIDE HERB - fl. white - (3)

4836 - LOBELIACEAE - TRAILSIDE HERB - 2 ft. fl. red <sup>FRUIT</sup> white - (4)

4837 - DIOSCOREA - VINE - fl. green - (4)

4838 - LORANTACEAE - PARASITIC SHAUB - 8 ft. <sup>in tops of trees</sup> 10 ft. tall - (5)

4839 - TREE - 75 ft. fl. white - (6)

4840 - EPIDENDRUM - S. & P. TAN - <sup>Red</sup> blotched brown - lip white - (1)

4841 - ERICACEAE - EPYPHYTIC SHAUB - 5 ft. <sup>BRACTS purple</sup> fl. white - frequent - (3)

4842 - TREE - 120 ft. NEAR CONTINENTAL DIVIDE - (5)

4843 - MELASTOMACEAE - TREE - 60 ft. 7000 ft. - (6)

4844 - TREE - 100 ft. 7000 ft. - (3)

4845 - ERICACEAE - EPYPHYTIC SHAUB - <sup>Low slender branches 6-8 ft.</sup> fl. pink. <sup>common in tops of trees</sup> - (9)

4846 - LAURACEAE - TREE - 120 ft. "SINUA" fl. tan - 7000 ft. - (10)

Llano del Volcan - 4500 ft. CARRIZO PROVINCE  
AUGUST 3, 1947

4847 - CONVULVULACEAE - fl. rose pink <sup>very</sup> common - (6)

4848 - UROSAURUS - ? - fl. blue - EVOLVING? - (5)

4849 - HABENARIA - fl. pure white - Very common - (6)

4850 - RUBIACEAE - fl. pale pink - common - (3)

4851 - TREE - 30 ft. fl. pink - <sup>ON ROAD TO BAMBITO IN</sup> Hazy Forest - (15)



- 4852 - LEANING - PROSTRATE HERB. - FL. ORANGE - (3)  
 4853 - SALVIA - 3 FT. - FL. BLUE - (6)  
 4854 - WOODY HERB - 3 FT. - FL. PINK - (5)  
 4855 - CROTON - SHRUB - 4-6 FT. - FL. WHITE - VERY COMMON - (5)  
 4856 - LAURACEAE - TREE - 20 FT. - FL. TAN - INFREQUENT - (11)

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BADO MONO - RICA'LO TRAIL - 17000 FT. 7/24/47 -

- 4857 - NACENARIA - Epiphytic - SEP. DARK GREEN - <sup>SPUR</sup> WHITE, TIPPED GREEN - (SEE PICKLE) - (1)

NORTH FACE OF  
 CARRO COPETE - AN EASTERN SPUR OF CHIRIQUI  
 VOLCANO - 8000 FT. <sup>8500 FT.</sup> 7/29/47

- 4858 - PROSTRATE HERB - (5)  
 4859 - TREE - 40 FT. - FL. WHITE - FRAGRANT - (5)  
 4860 - ERICACEAE - LAX SHRUB - ARCHING CANES 10 FT. - TERRESTRIAL, ON FOREST FLOOR - FL. PINK, TIPPED WHITE - POSSIBLY FALLON FROM ABOVE - (6)  
 4861 - QUERCUS - STERILE - THIS IS THE DOMINANT TREE ABOVE ABOUT 7500 FT., FORMING NEARLY PURE STANDS ON THE NORTH FACE OF CARRO, AND NORTH & EASTERN SLOPES OF THE VOLCANO - (3)  
 4862 - RUBIACEAE - TRAILING HERB - FL. PINK - FORMING DENSE COLONIES - (6)  
 4863 - Bromeliad - LEAVES RICHLY MARBLED DARK RED - VERY COMMON & CONSPICUOUS IN OAKS FROM CASITA AREA TO SUMMIT - (1)



- 4864 - Composite - woody vine - fls. yellow - (2)
- 4865 - Composite - Herb - 5 ft. fls. white - (3)
- 4866 - SHrub or small tree - 12-15 ft. fls. pink - (1)
- 4867 - Terrestrial climber - fls. green - (4)
- 4868 - Epiphyllum - Epiphytic - fls. dark brownish purple - (see pickle) (1)
- 4869 - Tree - 40 ft. fls. white - (5)
- 4870 - Ericaceae - Shrub - 8 ft. fls. white - in oak forest - (3)
- 4871 - Phytolacca - very woody branching herb - 8 ft. fls. & fruits purple - infrequent - (2)
- 4872 - Myrsinaceae - Shrub - 8 ft. fls. pink - common - (2)
- 4873 - Ebenaceae - Herb - Terrestrial - 4 ft. fls. yellow - very common in oak forest - (2)
- 4874 - Myrsinaceae - Tree - 50 ft. fls. white - very common in oak forest - (3)
- 4875 - Climbing fern - in oak forest - (1)
- 4876 - Filmy fern - Terrestrial - frequent in bamboo - oak forest - (3)
- 4877 - Bamboo - 30-40 ft. - clumps of 20-30 canes - very common in oak forest - also in bamboo forest - (4)

Summit of CARRO COPE & SOUTH WEST FACE - 9000 FT.

7/29/47

- 4878 - Iridaceae - fls. blue - very common - (4)
- 4879 - Smilacina paniculata - fls. white - (3)
- 4880 - Tree - 20 ft. fls. yellow - (4)



- 4881 - Fern - Fern-like stout plant - in frequent. (1)
- 4882 - ERICACEAE - SHrub - 6 ft. fls. pink - (4)
- 4883 - LAURACEAE - TREE - 10 ft. fls. TAN - (5)
- 4884 - COMPOSITE - ERECT HERB - fls. pinkish lavender.  
Very common on BARREN SW FACE (6)
- 4885 - SHrub - 5 ft. fls. RED - FREQUENT - (6)
- 4886 - CASTILLEJA - BRACED RED - VERY common - (3)
- 4887 - SALVIA? HERB - fls. BLUE - VERY common - (2)
- 4888 - ERICACEAE - TREE - 30 ft. fls. pale pink - (3)
- 4889 - LYCOPODIUM - ON BANKS IN BARREN SW FACE - (3)
- 4890 - LYCOPODIUM - IN HEAVY SHADE UNDER CAVE - (3)
- 4891 - ERICACEAE - SHrub - 10 ft. fls. RED - TYPED  
WHITE - common - (6)
- 4892 - TREE - 12 ft. <sup>weeping branches</sup> fls. pink - FRUIT RED - FREQUENT - (6)
- 4893 - ERICACEAE - SHrub - 8 ft. fls. RED - TYPED  
WHITE - FREQUENT - (7)
- 4894 - ERICACEAE - TREE - 8 ft. fls. WHITE - (3)
- 4895 - ALNUS - TREE - 40 ft. - VERY common on  
NORTH EASTERN PLANKS OF CHARQUI VELAHO - Terminal  
panicle above CAVE & intermingled with  
them, COMPARISON ABOUT 20% OF THE FOREST  
STAND IN THE E - 10000 FT. ZONE - <sup>clearing into weeping branches</sup> Y. ERICACEAE (5)
- 4896 - ERYTHRAEA - HERB - fls. WHITE - (2)
- 4897 - FUSCHIA - SHrub - 8 ft. fls. RED - (3)
- 4898 - PARNETIA - fls. WHITE - VERY common - (3)



Polydactyl

4899 - SHADE - 6 FT. FB. - Yellow - (2)

4900 - Herb - <sup>Halenia sp. - HANON WILSON</sup> - Green - Forming colonies in

SHADE NEAR SUMMIT - COMMON - (8)

4901 - ERICACEAE - SHADE - 6 FT. FB. - Red-tipped  
white - COMMON - (3)

4902 - WICKSTROMIACEAE - UNIPEDICELLAR - WOODY HERB - 5-8  
FT. FB. - WHITE - FREQUENT AS SMALL PLANTS ON  
BARKEN SOIL FACE OF CLIFF - AGRADIA - ABOUT 5 FT.  
ALSO IN DENSE OAK FOREST ON NORTH FACE, WHERE  
THE PLANTS REACHED 6-8 FT., BUT EVIDENTLY  
FLOWER AT A LATER SEASON - (3)

4903 - EPIDENDRACEAE - FB. - TAN - in small trees on summit - (2)

4904 - EPIDENDRACEAE - FB. - TAN - (See (p. 11)) (1)

4905 - ODORELLACEAE - FB. - white, with orange crest &  
spot on lobe - (2)

4906 - SEEMERACEAE - Epiphytic HERB - 5 FT. - FB.

Yellow - in OAK FOREST - SAME AS 4873 - (4)

4907 - WICKSTROMIACEAE - TREE - 35 FT. - FB. - WHITE -

FREQUENT in OAK FOREST - (3)

VERY BAD HUMID - 6000 FT. 7/27/47

4908 - PARASITIC - CASCADING - (2)



Bocas del Toro Province - Robalo Trail - Northern  
 Slopes of Cerro Moravia, 6000-7000 ft.  
 August 5-7 - 1947

- 4909 - *Calceolaria* - Fls. yellow - (8)
- 4910 - *Elleanthus* - Epiphytic - 3 ft. Sepals  
 bright purple - Lip pure white - <sup>see</sup> Keeney (5)
- 4911 - <sup>Lobeliaceae</sup> Lax Herb - 4 ft. Fls. bright pink - <sup>tipped</sup> white - (11)
- 4912 - Epiphytic Fern - (2)
- 4913 - *Urticaceae* - Herb - 6 ft. Fls. white - (5)
- 4914 - *Urticaceae* - Herb - 3 ft. (7)
- 4915 - *Urticaceae* - 1 1/2 ft. Fls. white - (1)
- 4916 - *Solanaceae* - Herb - 6 ft. Fls. pale green - (4)
- 4917 - <sup>Melastomaceae?</sup> Herb - 2 ft. Fls. white - common - (1)
- 4918 - *Ericaceae* - Epiphytic shrub - 8 ft.  
 Fls. scarlet - (1)
- 4919 - *Boraginaceae* - shrub - 8 ft. <sup>Fls. green</sup> fruits white - (3)
- 4920 - *Besleriaceae* - Fls. yellow - Spikes red & brown - (1)
- 4921 - *Rubiaceae* - Small tree - 8 ft. Fruits blue -  
 leaves bright yellow - (5)
- 4922 - *Bomarea* - Fls. red - common vine - (2)
- 4923 - *Centropogon* - lax, woody herb - 4 ft. Fls.  
 scarlet, tipped yellow - common - (7)
- 4924 - *Besleriaceae* - Herb - 3 ft. - leaves thick or  
 epiphytic - Fls. yellow - common - (5)
- 4925 - *Araliaceae* - ~~shrub~~ shrub - 12 ft.  
 Fls. white - (4)



- 4926 - Composite - Vine - in tops of large trees -  
Fls. white - (4)
- 4927 - Composite - Epiphytic AERBENT SHRUB - 10 ft.  
Fls. pink - FRAGRANT - FREQUENT & CONSPICUOUS - (6)
- 4928 - PASSIFLORA - Fls. pale green with purple markings - (8)
- 4929 - RUBIACEAE - SHRUB - 8 ft. Fls. lavender - (7)
- 4930 - NASTURTIUM - VINE - Fls. yellow with SHARPLET  
SPUR - (5)
- 4931 - SMILACINA - Fls. white - 9 ft. <sup>COMMON</sup> SEE PHOTO - (2)
- 4932 - <sup>BENTIANACEAE?</sup> Epiphytic SHRUB - 6 ft. Fls. <sup>IN TOPS OF LARGE TREES</sup> white - (3)
- 4933 - TROCHODENDRON? - VINE - Fls. green - FREQUENT - (5)
- 4934 - ERICACEAE - Epiphytic SHRUB - 10 ft. BRISTS DARK  
PINK - Fls. very pale pink - (4)
- 4935 - Columna - Epiphytic - Fls. Salmon Red - FREQUENT - (2)
- 4936 - CENTROPHEA - HERB - 6 ft. Fls. pink. <sup>VERY COMMON</sup> SEE KANAKIA - (2)
- 4937 - ACANTHACEAE - HERB - 6 ft. Fls. green - (5)
- 4938 - BEGONIA - 4 ft. Fls. white - (4)
- 4940 - ACANTHACEAE - HERB - 6 ft. Fls. Salmon Red - (1)
- 4941 - SHRUB - 8 ft. Fls. pale yellow - (8)
- 4942 - METASTROPHIS - TREE - 15 ft. Fls. white - (4)
- 4943 - BESNAYIACEAE - HERB - 3 ft. Fls. yellow <sup>COMMON</sup> - (9)
- 4944 - BESNAYIACEAE - HERB - 3 ft. Fls. pink <sup>COMMON</sup> - (7)
- 4945 - JESSIEA - HERB - 8 ft. Fls. yellow - (4)
- 4946 - <sup>BENTIANACEAE</sup> WOODY HERB - 10 ft. <sup>9424 BOLANIA</sup> Fls. BRISTLE PINK -  
FREQUENT, VERY SHOWY - (11)
- 4947 - LOBELIACEAE - WOODY BRANCHED HERB - 5 ft.  
Fls. ORANGE <sup>RED</sup> FREQUENT - (4)



- 4948 - *Colubacea* - Epiphytic - in tops of tall trees -  
Fls. <sup>Blood</sup> Red - very conspicuous - (see Koonchong) (3)
- 4949 - *Statice* - Shrub - petals dark orange -  
lip purple - (4)
- 4950 - *Piper* - Herb - 3 ft. (4)
- 4951 - *Lobeliaceae* - Herb - 3 ft. Fls. green - (2)
- 4952 - *Lobeliaceae* - Herb - 3 ft. Fls. dark brownish  
purple - frequent - (4)
- 4953 - *Solanaceae* - Herb - 4 ft. Fls. white - (5)
- 4954 - *Compositae* - Tree - 40 ft. Fls. lavender - frequent - (4)
- 4955 - *Solanaceae* - Herb - 8 ft. Fls. greenish white - (4)
- 4956 - <sup>Cleome</sup> - Herb - 6 ft. Fls. salmon red - (3)
- 4957 - *Solanaceae* - Herb - 6 ft. Fls. yellow - (2)
- 4958 - *Scorae* - (4)
- 4959 - *Cucurbitaceae* - Vine - Fls. green - (3)
- 4960 - *Bromeliad* - Epiphytic - in tops of tall trees -  
bracts red - common - (1)
- 4961 - *Besneriaceae* - Shrub - 8 ft. Fls. <sup>frequent</sup> orange - (3)
- 4962 - *Hoffmannia* - Herb - 8 ft. Fls. yellow - (2)
- 4963 - *Woody Herb* - 6 ft. Fls. white - minute - (3)
- 4964 - *Renealmia* - Persistent calyxes bright yellow - (2)
- 4965 - *Fuschia* - Woody Herb - 3 ft. Fls. red - (5)
- 4966 - *Compositae* - Tree - 40 ft. Fls. yellow - (6)
- 4967 - *Melastomaceae* - Tree - 40 ft. Fls. blood  
red - fairly frequent - stamens pure white - (8)



- 4968 - SAURAU - TREE - 8 FT. FL. WHITE - (5)
- 4969 - HERB - FL. GREEN - Common in wet places <sup>Mont.</sup> trail. (6)
- 4970 - CHIBADIA - SHRUB - 8 FT. FL. WHITE - (6)
- 4971 - COLUMBA - EPiphytic - FL. SCARLET - (1)
- 4972 - SPREADING TREE - 40 FT. <sup>SEEDS FREQUENT ABOVE</sup> TRAIL - (4)
- 4973 - HELICONIA LANKESTERI - 6-8 FT. <sup>BRACTS LAPIDAR RED -</sup> VERY COMMON - (1)
- THIS WAS THE ONLY HELICONIA SEEN ON THE <sup>LOCAL</sup> SLOPE -
- 4974 - ERICACEAE - EPiphytic SHRUB - 8 FT. <sup>BRACTS</sup> PURPLE - (4)
- FL. PURPLE - FREQUENT -
- 4975 - BESNERIA - HERB - 4 FT. <sup>CALYX BLOOD RED -</sup> COROLLA BROAD ORANGE - <sup>COMMON</sup> - (7)
- 4976 - BESNERIA - HERB - 3-4 FT. <sup>BRIGHT YELLOW -</sup> CALYX + COROLLA VERY COMMON - (8)
- 4977 - FERN - (2)
- 4978 - HERB - 3 FT. <sup>LENTIANACEAE?</sup> - (2)
- 4979 - METASTOMA - SHRUB - 3 FT. FL. BLOOD RED - (1)
- 4980 - BETONIA - BUSHY HERB - 2 FT. FL. WHITE - <sup>Mont.</sup> STREAMS - (7)
- 4981 - BESNERIA - HERB - 3 FT. <sup>CALYX RED -</sup> COROLLA ORANGE - (5)
- 4982 - BRACHIA - EPiphytic - FL. <sup>4 BRACTS</sup> PALE GREEN - (1)
- 4983 - OLURIA? BUSHY EPiphytic SHRUB - <sup>in TOPS OF TREES</sup> 30 FT. FL. WHITE - 120 FT. (11)
- 4984 - RUBIACEAE - EPiphytic SHRUB - 18" FL. PINK - (12)
- PINK or WHITE - in TOPS of forest trees -
- 4985 - BESNERIACEAE - HERB - 5 FT. FL. ORANGE - (5)
- 4986 - ERICACEAE - EPiphytic SHRUB - 5-6 FT. FL. PINK - <sup>in TOPS OF forest trees</sup> - (6)
- 4987 - BESNERIA - HERB - 2 FT. FL. PURPLE WHITE - (3)



- 4988 - MIMASINACEAE - TREE - 40 FT. FLS. PURE WHITE - FREQUENT - (SEE KODAK/ROME) (3)
- 4989 - CYPHANTHE - HERB - 3 FT. BRACTS BROWNISH PURPLE FLS. PURPLE - FREQUENT - (3)
- 4990 - MIMASINACEAE - HOPE BUSHY EPYPTIC SHRUB - 30 FT. IN TOPS OF LIANT TREES - (4)
- 4991 - TREE - 60 FT. ARDISIA? (4)
- 4992 - MIMASINACEAE - TREE - 35 FT. FLS. PINK - (3)
- 4993 - BESNERIACEAE - HERB - 4 FT. UNUSUAL LEAVES & LARV. PURPLE - FREQUENT - (3)
- 4994 - LOBELIACEAE - HERB - 3 FT. FLS. PURPLE - (3)
- 4995 - SOLANACEAE - EPYPTIC HERB - STEMS HABIT OF A CLOUTNER. PANDULOUS. FLS. PINK - FREQUENT - (7)
- 4996 - BESNERIACEAE - EPYPTIC AERIAL SHRUB - 8 FT. FLS. PINK - ON SIDES OF TREES IN HEAVY FOREST - (15)
- 4997 - TRAILING HERB - FLS. WHITE - FREQUENT -
- 4998 - PHYTOLACCA - HERB - 6 FT. VERY COMMON - (2)
- 4999 - COMPOSITE - WOODY HERB - 10 FT. FLS. BRIGHT YELLOW - VERY FRAGRANT - (SEE KODAK/ROME) (2)
- 5000 - SMILACINA - TERRESTRIAL OR EPYPTIC - 8-10 FT. FLS. WHITE - (SEE KODAK/ROME) (1)
- 5001 - MIMASINACEAE - EPYPTIC SHRUB - 6 FT. (1)
- 5002 - MIMASINACEAE - TRAILING HERB - COMMON IN WET PLACES ALONG TRAILS - (5)



- 5003- *REDONIA* - *SHRUB* - *UNARMED* - *10-15 FT.*  
BRANCHES - *8-10 LIVE BRANCHES* - *1-TO-3* IN *THICKETS*  
IN *PLACES* - *VERY COMMON* - *TOGETHER WITH THE*  
*ONE* *BRANCHES* *COLLECTED AT* *CHANGJIA* *TRAIL*  
UP *95%* OF *THE* *PLANT* *POPULATION*, *AND A VERY*  
*CONSPICUOUS* *element* *in* *THE* *VEGETATION*. (1)
- 5004- *GUNNERA* - *FAIRLY FREQUENT* *in* *WET* *PLACES* *ALONG* *SMALL*  
*STREAMS* - *10 FT.* *SOME* *LEAVES* *ARE* *DOPE* *THE* *SIZE*  
OF *THE* *PRESNT* *SPECIMEN* - (1)
- 5005- *COMMELINACEAE* - *HARD* - *2 FT.* *FLS.* *PINKISH* *LAUREL*.  
*COMMON* - (4)
- 5006- *MELASTOMACEAE* - *TREE* - *30 FT.* *FLS.* *WHITE* - (6)
- 5007- *COMPOSITE* - *HERB* - *5 FT.* *FLS.* *WHITE* - (1)
- 5008- *ERESMERIA* *sp.* - *HERB* - *TRANSPIRING* *OR* *EXUDATING* -  
*2-3* *1 FT.* *FLS.* *SEVERAL* *SPERMATOPHYTES* *BELOW* *VERY* *FREQUENT* (1)
- 5009- *BERBERIS* - *WOODY* *SHRUB* - *10 FT.* *BRANCHES* - (1)
- 5010- *COMPOSITE* *in* *HERB* - *10 FT.* *FLS.* *LAUREL* - (2)
- 5011- *STIMBUCUS* ? - *TREE* - *50 FT.* *in* *heavy* *Shrubland* *in* *forest* - (5)
- 5012- *PIPER* - *STOUT* *HERB* - *4 FT.* *COMMON* - (2)
- 5013- *EPIDENDRUM* - *10* *FT.* *FLS.* *GREEN* *GREEN* *THE* *LEAVES* - (1)
- 5014- *TREE* - *50 FT.* *FLS.* *WHITE* - (3)
- 5015- *SOLANACEAE* - *WOODY* *HERB* - *10 FT.* *FLS.* *ORANGE* -  
*VERY* *COMMON* *AND* *CONSPICUOUS* - (4)



CARRO TAKARA CHORABA - VOTY, BULAGA - CHIRIQUI  
Province - 1000 M. August 1, 1947

- 5016 - Bromeliads - Common on STEEP ROCK FACES -  
FLG. SALMON RED - (8)
- 5017 - RUBIACEAE - TREE - 15 FT. FLG. WHITE - (6)
- 5018 - TREE - 20 FT. (4)
- 5019 - TREE - 50 FT. - 2200' ALTITUDE - (4)
- 5020 - COCCULIDAE - TREE - 40 FT. FLG. WHITE - (4)
- 5021 - Heliconia - 12 FT. BRACTS RED - FLG. GREEN -  
(SEE KODACHROME) only tips describe -  
INFLORESCENCES IRIDESCENT. FREQUENT SLUGS - (3)
- 5022 - Apocynaceae - TREE - 85 FT. FLG. yellow - STAMENATA - (16)
- 5023 - BACILLIS - STOLONIFEROUS - ARAUCARIA - 6 CANES  
10 FT. FREQUENT - IN MOUNTAIN FOREST.

PASTURES & RIVER BANKS EAST OF  
VOTY, BULAGA - CHIRIQUI PROVINCE - 5000 FT.  
July 31, 1947

- 5024 - TREE - 30 FT. IN FOREST ABOVE RIVER - (4)
- 5025 - LORANTACEAE - PARASITIC SHAUB - 2 FT. (3)
- 5026 - FIGS - STRANGLER TREES - 45 FT. FREQUENT  
IN PASTURES (3)
- 5027 - EUPHORBIA - SHAUB - 8 FT. FLG. WHITE - (4)
- 5028 - WOODY VINE - FRUITS RED - (5)
- 5029 - COMMELINACEAE - HERB - 4 FT. FLG. BLUE - (3)
- 5030 - TREE - 30 FT. (4)



very, of KUTAKA mostly in PASTURES of HIGH  
GRASS, with BELTS of what looks like CRIMINAL FOREST  
CONTINUED mostly TO THE STREAM BANKS. WEST OF TOWN  
THERE IS AN IRREGULAR STRIP OF SHORT GRASS LAND  
RUNNING ROUGHLY EAST & WEST - BOUNDED BY TYPICAL  
DRIED SCRUB WOODS -

5031 - BIGNONIACEAE - LIANA - FL. PURPLE - (3)

5032 - CORDIA HETEROPHYLLA - TREE - 50 FT. (2)

5033 - CAMPYLOPHYLLUM - TREE - 65 FT. COMMON (3)  
VERBENACEAE - CORNUTIA

5034 - SHRUB - 12 FT. FL. BLUE - (1)

5035 - RUBIACEAE - WOODY VINE - FRUIT ORANGE - (2)

5036 - TREE - 30 FT. FRUIT ORANGE - (4)  
VERY COMMON IN WOODS

5037 - WOODY HERB - 4 FT. FRUIT PURPLE - (2)  
VERY COMMON

5038 - LAURACEAE - TREE - 40 FT. (2)

5039 - MARANTACEAE - FL. YELLOW - COMMON - (1)

5040 - ARISTOLOCHIA - SHRUB - 3 FT. FRUIT TAN  
INNER CORolla YELLOW - OUTER CORolla PURPLE CREAM - (2)  
BRIGHT

5041 - EPILYPTIS - FL. WHITE - (2)

CHIRIQUI PROVINCE -

LAND WEST OF KUTAKA - 500 FT. 8/2/47

5042 - ERICACEAE - FL. PINK WHITE - (1)

5043 - TURNERACEAE - FL. YELLOW - COMMON - (4)

5044 - LEGUMINE - PROSTRATE HERB - FL. ORANGE - RARE (5)  
COMMON ALONG

5045 - HERB - 3 FT. FL. WHITE - COMMON (3)

5046 - WEED - FL. WHITE - COMMON (2)

5047 - RUBIACEAE - PROSTRATE HERB - FL. WHITE - (6)  
COMMON

5048 - PASSIFLORA - (3)

5049 - ARALINACEAE - TREE - 40 FT. FL. GREENISH WHITE - (4)

5050 - LEGUMINE - PROSTRATE HERB - FL. YELLOW - COMMON (4)

5051 - DIOSCOREA - VINE - FL. TAN - (2)



5052 - Polygalae - Common Herb - Fls. pink - (6)

5053 - Rubiaceae - Herb - Fls. white - Common - (3)

Cerro Toluca, Morelia. V. G. P. 15000 ft.  
Michoacán Province - Dec 11 8/1/17

5054 - Shrub or woody herb - 8 ft. Fls. pink -

very common - Polygalae - (5)

5055 - Rubiaceae - Shrub - 12 ft. Fls. pink - (5)

5056 - Solanaceae - Vine - Fruits red - (2)

5057 - <sup>Nanalia</sup> Rubiaceae - Tree - 12 ft. common - (1)

5058 - <sup>Bushy</sup> Tree - 10 ft. - (4)

5059 - Tree - 65 ft. - (3)

5060 - Piper - Tree - 20 ft. very common - (4)

5061 - Legume - Tree - 25 ft. very common - (1)

5062 - Vitaceae - Fls. green - Common - (3)

5063 - Urticaceae - Tree - 12 ft. Fruits orange - (2)

5064 - Melastomac - Shrub - 8 ft. Fls. pink - Common - (3)

5065 - Heliconia - Infl. pendulous - Bracts red -  
tips yellow - Frequent - (1)

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NOTES TO Herb. Inst. Wooten

Sept. 15, 1947 -



Loma del Tigre - Region North of El Valle de Atenas -  
3000 FT. FLD. RAMBOA 9/6/47

5066. *Stelis Athamit* L. var. - Sepals tinged with purple  
on outer surfaces. GREENISH on inner surfaces -  
petals & lip RABBIT purple - (SEE PICKLE) (3)

5067. *LYCASTE JOURNALIA* - ENDRES & ROSE, F. (1)

Rio Tejucan - Honduras - FLD. RAMBOA 6/30/47

AROMATIC LINCOLN

5068. *LYCASTE ~~ELMIRA~~* FLD. JICKLE CRANE  
THROUGHT - (SEE PICKLE) (1)

VOL. ESTRELLA VALLEY - COSTA RICA  
FLD. RAMBOA 9/3/47

5069. *ONCIDIUM KRAMERIANUM* ROSE, F. (1)

Rio MATA AROMATICA - REGION NORTH OF EL VALLE  
DE ATENAS - 1500 FT. FLD. RAMBOA 9/3/47

5070. *STENOPHEA MARSHII* DOD. ex LINCOLN. (SEE  
DRAWING - JICKLE & PICKLE) (2)

Cerro Campana - Rocky outcrops - 2500 FT. FLD.  
RAMBOA 8/28/47 -

5071. *PERISTERIA ELATA* HOOK - (1)



EL VALLE - SOUTH & EAST Mts - 2000 FT.

FLD. SAMBOA 9/2/47 -

5072. *PERISTERIA* *flata* HOOK. ST. P. white,  
column white, NERES of column white,  
spines purple, lip white, gland purple.  
FRANKLIN. (1)

Rio Lindo, HONDURAS very Pinta Blanca

FLD. SAMBOA 8/23/47

5073. *Epiphytic* - FL. PINK - common - (2)

Cerro Campana - 1000 FT. FLD. SAMBOA 8/23/47  
Collected by Dorothy Allan

5074. *Symphoricarpos* sp. FL. white - (1)

Hills South of Managua, NICARAGUA - 1000 FT.  
FLD. SAMBOA 8/28/47

5075. *Oncidium* - ST. P. yellow - heavily barred brown -  
with yellow tips. Petals & sepals  
of lip clear yellow - central portion below  
chest brown - Ovary white, spots brown -  
anthers of yellow - (see picture) (2)



Rio Chiriqui - very. Juan Luis - 80 ft. Fls.  
AMBOA 8/24/47 - collected by Dorothy Allen

5076 - *Epibrevium* - Fls. open - (2)

Cerro Campana - 2000 ft. Fls. AMBOA - 8/25/47  
Collected by Dorothy Allen -

5077 - *Trichocereus* - Stems pale green - top white, with  
black reddish brown spot. Wires of column  
white, with central red blotch. Anthers of tube  
white, woody - (1)

Cerro Campana - Rock face - 2500 ft. Fls.  
AMBOA 8/18/47 -

*Maxillaria planicola*  
5078 - *Maxillaria* - Fls. white, inner sepals  
yellow - (See guide to Maxillaria) (2)

Rio Lirio, Honduras - very. Petal black - Fls.  
AMBOA 8/20/47

5079 - *Maxillaria* - (1)

El Valle Chiriqui - 1800 ft. Fls. AMBOA 7/31/47

5080 - *Cyclopogon dianae* - (1)



This table shows about 700 complete  
names of species in the genus in the index.

VERY, FINCA LA RICA - EL VELO - 5000 FT.  
Fls. in the collection of MR. R. K. MORRIS  
7/9/47

See also # 4783

5081 - MAXILLARIA - Fls. ORANGE - ①

EL VALLE DE ARVEN - 1800 FT. Fls. in the  
collection of MR. HARRY DUNN 7/30/47

5082 - EPIDENDRUM DIFFORME Jacq. (See pickle) ①

VERY, FINCA LA RICA - 5000 FT. Fls. in  
the collection of MR. R. K. MORRIS - 7/31/47

5083 - EPIDENDRUM DIFFORME - Jacq. (See pickle) ①

5084 - EPIDENDRUM DIFFORME - Jacq. (See pickle) ①

EL VALLE DE ARVEN - 1800 FT. Fls. KNOWN  
8/2/47

5085 - EPIDENDRUM DIFFORME Jacq. (See pickle) ①

VERY, BELLOO - 10 FT. Fls. KNOWN 7/2/47  
collected by Dorothy O. Ayler

5086 - BRASSAVOLA NOBORA Lindl. ①



Carle Camp - 2000 ft. Flo. Panama 7/27/47

Collected by Dorothy C. Miller - <sup>inner</sup> (see p. 9 & photo)

5087. *Canarioidium* - Fls. white; sep. pale yellow - ①

Rio Chico - v. dry. Yaviza - Darien Province -  
25 ft. June 9-11, 1947 -

5088 - *Leucaena* - TREE - 50 ft. Fls. white - ③

5089 - *Leucaena* - TREE - 50 ft. common - ③

5090 - *Rubiacae* - SHRUB - 7 ft. Fls. <sup>white</sup> common - ④

5091 - *Narscewicia coccinea* - TREE - 20 ft.  
BRACETS RED - ⑦

5092 - *Cratogeomys* - SHRUB - 8 ft. Fls. white - common - ③

5093 - *Cissus* - VINE - Fls. greenish <sup>bracts orange</sup> - common - ③

5094 - *Apocynum* - SHRUB - 8 ft. Fls. <sup>bracts orange</sup> yellow - ①

5095 - *Cucurbit* - VINE - common - ③

Handwritten Rio Chico, Darien Province -  
6/12-13/47 -

Steven 10

5096 - Composite - TREE - 20-30 ft. Folioles thick  
on rough BRAS - Fls. pink - very common  
& characteristic of the upper river - ③



Rio Chankas - V. City. Juan 2000 ft. 80 ft.  
June 16, 1947 - Collected by Dorothy Allen

5097 - RUBIACEAE - SHRUB - 12 ft. Fl. <sup>white</sup> ~~fragrant~~. (5)

SUMMIT CERRO SANTA RITA - CACHA PROVINCE  
1200 - 1500 FT. 9/13/47 - with Dorothy Allen

5098 - COMPOSITE - VINE - Fl. <sup>fragrant</sup> ~~white~~ - Common (5)

5099 - MELASTOMACEAE - SHRUB - 6 ft. <sup>Fls. pink</sup> ~~undersides of leaves~~  
Blood red - Common - (See Knapweed) (5)

5100 - RUBIACEAE - WOODY VINE - Fl. white -  
Very common. Fruits red - (6)

5101 - SYMPHONIA - ?? SHRUB - 5 ft. <sup>yellow latex</sup> ~~Fls. pink~~ (7)

5102 - EUPHORBACEAE - TREE - 25 ft. Fl. cream  
yellow - Common - (See wood specimen) - (9)

5103 - LABIATAE - TERRESTRIAL - Sepals green - Sepals  
petals white - (3)

5104 - <sup>ERICACEAE</sup> ~~SHRUB OR~~ WOODY SHRUB - 5 ft. <sup>Fls. yellow</sup> ~~tipped dark green~~ - (6)

5105 - BIGNONIACEAE - Liana - Fls. yellow - (3)

5106 - MELASTOMACEAE - VINE - <sup>Epiphytic ??</sup> ~~Fls. very pale pink~~ - (9)

5107 - MELASTOMACEAE - SHRUB - 4 ft. Fl. white - (2)

5108 - ASCLEPIAD - <sup>VINE</sup> ~~Fls. pale yellow~~ - Very strong

FRAGRANCE AT NIGHT & EARLY MORNING EXACTLY  
LIKE CANTHUS NOCTURNUS - (6)



TERRAZZINI.

- 5109- *Sobralia* - S. & P. Crown yellow - Lip cream yellow - inner throat darker yellow - NOT FRAGRANT - (SEE PICKLE & PHOTO) (1)
- 5110- *Polystachya* - Epiphytic - fls. yellow - (1)
- 5111- *Epidendrum* - S. & P. pale lavender yellow - Lip pure white - Epiphytic - (1)
- 5112- *Dichaea* - Epiphytic - S. & P. pale blue - Lip deep blue - (SEE PICKLE) (1)
- 5113- *Pleurothallis* - fls. lavender - (1)
- 5114- *Scaphyostictis* - fls. pale lavender - (1)
- 5115- *Scaphyostictis* - fls. pale lavender - (1)

TRAILS - Isthmus Highway - Steep Road CUTS NEAR Rio Patencillo - 500 ft. 9/13/47

- 5116- *Sobralia* - S. & P. pale cream yellow - Lip pale yellow - inner throat darker yellow. Growing in red clay on face of road cuts. These cuts were made about 1942-43, hence the plants must have established themselves in this unlikely position within that short interval. Plants in common in Rio Patencillo area, as well as *Scaphyostictis* - (SEE PICKLE) (2)



ROY. FORT Sherman - Cr 2. 0 m. 9/12/47

- 5117 - DEBILITATED - Climbing Spiny Palm -  
Frequent - Fls. - Straw Yellow - (1)
- 5118 - STALCAGJUS - TREE - 20-60 FT. Fls. Orange -  
Sf. Blood Red - Smaller sized trees frequent  
on margins of WANDUVE. Surrounded by  
ACROSTICHUM FERN - Larger trees infrequent  
on higher ground - (See Rockhouse & Wood  
specimen) (12)

ROY. MINOI - Cr 2. 0 m. 9/13/47

- 5119 - LEAVES - SHRUB OR SMALL TREE - 15 FT.  
Fls. purple - Frequent - Infrequent - (7)

FORT SAN LORENZO - 100 FT. - 9/13/47

- 5120 - MORACEAE - POBOUMA? - SHRUB OR SMALL  
TREE - 10 FT. Yellow stems inhabited by  
ANTS - (6)
- 5121 - FERN - FORMING LARGE UNSYMmetrical clumps  
on the branches of larger trees - (5)
- 5122 - MARPHITACEAE - SHRUB - 5 FT. Fls.  
PINK - (5)



El Valle Chiquito - 1800 FT. Rio Nambora  
9/14/47 -

5123 - STANNHEIA - SEE DRAWING - PICKLE & PHOTO - (1)

Limon Island - VCTY. Nuevo Limon - C. L. BATHUR LAKE.  
80 FT. SEPT. 24, 1947 - COLLECTED BY WALTER COPE -

5124 - CATASETUM BICOLOR - (SEE PICKLE) - SEE ORATIO.  
MANUSCRIPT FOR DESCRIPTION - (1)

O. 2.

VCTY. NAMBOA - 150 FT. SEPT. 25, 1947

CESPEDEZIA MACROPHYLLA SEEM. OCHNACEAE

5125 - TREE - 75 FT. - 2 1/2 FT. THICK DIAMETER.

Flowers yellow - INTERMEDIATE -  
(WOOD SAMPLE SENT HBS) (5)

Rio Limon, NAMBORA - VCTY. Pava Blanca - FLO.  
NAMBOA 6/9/47 -

5126 - MORMOLYCE SP. S. & L. YAN - STRIPED RED - BROWN - LIP  
YAN, WITH RED BROWN STRIPES, CREST AND VENTRAL  
BLotch AT BASE OF LIP. COLOR GREENISH YELLOW.  
COMMON ON LARGE TREES - (1)



5127 - MAXILLARIA - Sill. yellowish green, lig. dark  
MARON - very common - (2)

1000 ft.  
Yuty, DOLETA - MIRIGOT PROVINCE, HOWARD'S 1952  
COLLECTION OF HARRY DOWN, Sept. 28, 1947

5128 - CYCNOGLOSS. VENTRICOSUM - Staminate fls. (1)

CARRO SANTA RITA, 1200 ft., DOLETA PROVINCE.  
Fls. MARON 9/27/47

5129 - POLYPODIA - fls. brownish yellow - (1)

EL VALLE DE ARYON, JONAS DEL TIRRE, 3000 ft.  
Fls. MARON 9/27/47

5130 - EPIDENDRUM - Sill. pale green, bractlets red - brown -  
lig. white, markings purple - (SEE ABOVE) (1)

RIO LIXIMO, HOWARD'S 1952, Santa Blanca - fls.  
MARON 9/28/47

5131 - EPIDENDRUM - (1)



El Valle de Antón, lower edge of forest, 3000 ft. Ha  
RAMBOLA 9/28/47

5132 - *Platanus mallica*, fls. white-yellow. (2)

Cerro Santa Rita, Colón Province, 1200 ft.  
Sept. 30, 1947

*CESPEDEZIA TETRACROPHYLLA* Seem

5133 - Tree - 60 ft. fls. yellow - frequent. (8)

Trans-Isthmian Highway - Vcty, Rio Piedraquito, 200 ft.  
Sept. 30, 1947

*CESPEDEZIA TETRACROPHYLLA* Seem

5134 - Tree, 45-65 ft. fls. yellow, frequent. (8)

Fort San Lorenzo, Cr. 2, 50 ft. Sept. 30, 1947

5135 - Lauraceae, tree - 65-70 ft. fls. white, (6)  
frequent -

5136 - Scandent shrub - 15 ft. fruits red - freq.  
white, milky latex. (1)



THURS - 25th in the morning - V. of, Rio Narva 100 -  
100 ft. 9/30/47

5137 - Brinnonia - mossy leaves - in tops of large  
trees - 1 lb., yellow. (3)

Cerro Santa Rita - color Province, P.R. Narva  
9/28/47 - collected by Dorothy May -

5138 - Purpurea (see pickle) - Plate - (1)

Region north of El Valle, 3000 ft. P.R. Narva  
9/28/47

5139 - Lycate Narva - in tops of large trees -  
g. pale olive green. 1 lb. white, spotted rose  
red - 1 lb. white, spotted rose red. (1)



HILLS EAST OF PANAMA CITY - CERRO J. (SEE) 2000 FT.  
10/1/47

5140 - TREE - 65-70 FT. Fls. ROLDAN yellow - Frequent. (1)

VERY. NUEVO LEMAN - Colon Province - 2000 FT. 10/4/47

5141 - RUBIACEAE - BUSHY TREE - 20-30 FT. Fls. PINK.

CERRO Chiriqui - 3000 FT. Fls. ROLDAN 9/29/47

5142 - *Tricopilia* *repens* (SEE picture - photo 9)  
(rare) (1)

UPPER Rio Paparito - 2000 FT. 200 FT.  
collected by KRISTINA FAIRBANKS - 9/28/47

5143 - *Maxillaria*, Fls. white. Flower lobes & lip  
yellow. (SEE picture)

Rio Tocumen - Hills EAST OF PANAMA CITY - 100 FT.  
Fls. ROLDAN 9/30/47

5144 - *Practica* *lata* - (1)



CHORRAA LANE 3 - 50 FT. FL. TAKEN 10/14/47

5145 - PRISTINA LANA -

(1)

very curious type 2:

THAN 3 - BATHING HIGHWAY 200 FT. FL. TAKEN  
10/14/47

5146 - LIPIDENDRUM - FL. pale green -

(1)

Locality UNKNOWN - Flowers in the collection  
of MR. BLOTT - LATE LATE - 10/14/47

Pistillate flower

5147 - CYCNOCHUS - EUBERTONIANUM? A.S.P. TAKEN -

Lip white on frontal surface, with green tip.

Color narrow marked greenish yellow.

Columnar. Lip taken on dorsal surface.

Flower over all 9.5 cm. length & 2.0 cm. wide.

(See picks)

(1)

Hills South of El Valle - 2000 FT. Fl. in the  
collection of MR. WALKER 10/14/47

5148 - FARESTIA - Reported as showing in HILLS.

(Lip is) <sup>22</sup><sub>11</sub>

(1)



VERY, RAMBOA - C-2. 100 FT. Fld. 10/2/47

5149 - *CYATHODUM VIRESCENS*. (1)

Cerro Campana - 3000 ft. Fld. 10/2/47

5150 - *BRASSIA ALLENII* - (see photo & plate) - description  
in manuscript. (1)

VERY, VILLALBA - Rio Chama - 4 to 5 ft. Fld. 10/2/47  
collected by Dorothy Adams

5151 - *CYATHODUM GROSSIDENS* - (pickle only) see plate -  
description in manuscript. (1)

Rio Lirio, Honduras - VERY, PANA BLANCA - Fld. RAMBOA  
5/9/47

5152 - *CYATHODUM GROSSIDENS* sp. Fld. RAMBOA - (pickle only) (1)

VERY, GUATEMA - CHIQUIPUI PROVINCE - 500 FT. Fld.  
RAMBOA 10/2/47

5153 - *CYATHODUM VENTRICOSUM* - (pickle only) <sup>STAMINATE</sup> flower. (1)



Very. Concepcion - CHIRIQUÍ Province - 1000 ft.  
Flo. RAMONA 9/18/47.

5154 - CYCNOCHAS VERRUCOSUM - STAMINATE flower.  
(SEE PICKLE) (1)

Coastal Swamps near Paoora - On the  
RAMONA FEB. 20, 1947.

5155 - ONCIDIUM STYLIATUM - (PICKLE ONLY) (1)

Rio Requena - Upper MARIANA Lake Region 200 ft.  
Flo. RAMONA 9/15/47.

5156 - ONCIDIUM GUSMANNI - (PICKLE ONLY) (1)

Cerro TRINIDAD - 3500 FT. FEB. 10, 1947.  
ON WET ROCK FACES.

5157 - UTRICULARIA - fl. purple - PICKLE ONLY (1)

El Valle - Floor - 1500 ft. Flo. RAMONA 9/30/47  
collected by Dorothy Allen.

5158 - ONCIDIUM CRISTA - DALLI - (PICKLE ONLY) SEE PLATE  
& PHOTO. Description in manuscript since there  
were flowers - (1)



RIO TOSUMBA - 1000 ft. EAST OF SANTA ALBA - 100 ft.  
FLO. RAMONA 9/20/47

ENSATUM

5159 - ONCIDIUM ~~canadense~~ - (pickle only) ①  
MISS. RARE FROM THIS -

Cerro Campana - 2000 ft. Flo. Ramona 9/6/47  
Collected by Dorothy Allen -

5160 - CAMARIPIUM DATSIFOLIUM - (pickle only) ①

5161 - THICOCARPUS - (pickle only) ①

El Valle Chiriqui - 2000 ft. Flo. Ramona 7/6/47

5162 - OYENOKES F. BERTONIANUM? - STAMINATE FL.  
(pickle only) ①

LATON LAKE - 85 ft. Flo. in the collection of  
MR. BABER - 10/4/47

5163 - THICOPILIA ONCIDIATA - (pickle only) ① <sup>SEE</sup> PLATE

5164 - DATASCIUM VIRIDIFLAVUM (pickle only) ①



VERY CONCEALED, OBSCURE PROVENANCE - 1000 FT.  
FLO. SAMBOA 4/29/47

5165 - *CRATGEOMY DREYERII* - S. GREYISH-GREEN ON  
REVERSE SURFACES, DENSELY SPOTTED LIVID BROWN  
ON FRONTAL SURFACES. PUPAE DENSELY SPOTTED  
LIVID BROWN ON REVERSE SURFACES & IRREGULARLY  
& HEAVILY BLOTCHED LIVID BROWN ON FRONTAL  
SURFACES. POINTED  $\frac{1}{3}$  OF MAX OR MAXIMUM OF DIF  
GREEN, SHADING TO CORINTHIAN PURPLE, WITH  
FRONTAL, YELLOWISH GREEN MAXILLARIES -  
ANTHAX CAP - GREENISH YELLOW - RIVER LIP  
NOT CORRUPTED - (PICKLE ONLY) (1)

EL VALLE - 2000 FT. NORTH - FLO. SAMBOA 7/9/47

5166 - *CYCKOCERAS AUREUM* - (STIMULATE P.B.) PICKLE ONLY -  
SILY P. GREENISH WHITE, WITH SPARSE SPOTTING OF  
RED-BROWN - LIP WHITE, WITH TWO LATERAL  
THORACIC PROCESSIONS LIKE GREEN. CORNUT RED-BROWN -  
ANTHAX CAP YELLOW - (1)



YOTY. REMEDIOS, 200 FT. - 10/6/47

5167 - *Chlorochrysa* (Pickle only)

SEE plate -

①

YOTY. LA CHARRA - 500 FT. FLD. TAMBOA 3/20/47

5168 - *Oncidium* (Pickle only) S. & P. yellow

Blotched red-brown - Front & lateral lobes

Up bright yellow on both surfaces. Crest

Blotched orange -

②

CARRO CAMPANA - 2500 FT. FLD. TAMBOA 8/18/47

5169 - *Pescatorea* (Pickle only)

①

YOTY. Remedios - Chiriqui Province - 100 FT.

FLD. TAMBOA 7/12/47

5170 - *Epidendrum* (Angise) (Pickle only) ①

CARRO TUTE, YOTY. SANTA FE, VERAGUAS PROVINCE

FLD. TAMBOA 8/30/47

5171 - *Pescatorea* (Pickle only)

①



very. Rio TATASARA - CHIRIQUI PROVINCE. 50 FT.  
Fls. in the collection of DR. HAN FARRER.  
9/28/47

5172. OXIDACEAE VENTRICOSUM (THIS IS A VERY  
SMALL FLOWERS PLANT, WHICH SHOULD PROBABLY  
BE GIVEN A NAME) PICKLE ONLY -  
(FLOWERS ARE FROM TWO PLANTS) (1)

Cerro SANTA RITA, COLEN PROVINCE. 1200 FT.  
10/15/47 - WITH DR. HAN FARRER.

5173 - BERBERACEAE - LAX SHrub - 8 FT.  
Fls. yellow - IN HEAVY FOREST WITH  
TREE FERNS. (9)

Locality UNKNOWN - PROBABLY <sup>FLICK OF HILLS</sup> NORTH OF EL VALLE  
Flowers in the collection of DR. HAN FARRER.  
10/23/47

MINERADENIA?  
5174 - NOTYLA - (PICKLE ONLY) (1)



3000 FT.

Cerro Tota, Vcty. Santa Fe, AVERANAS Province  
Flowered in the collection of GRAM FAIRCHILD  
9/8/47

5175 - STANHOPEA pulchra - (pickle only) ①

El Valle - 2000 ft. in the collection of  
GRAM FAIRCHILD 9/12/47

5176 - STANHOPEA - (pickle only) ①

5177 - EPIDENDRUM DIFFORME (pickle only) ①

5178 - CATASETUM VIRIDIFLAVUM (pickle only) ①

5179 - BRASSIAS (2 sp.) NOTE DIFFERENCES in  
Base calli. (pickle only) ①

5180 - MIMODES (pickle only) ①

Cerro Santa Rita, Caba Province, 1200 ft.  
Fl. in RAMBOA 10/25/47 with GRAM FAIRCHILD

5181 - CATASETUM BICOLOR - 3-4 ft. pale flesh pink.  
lip white, spotted & marked red-brown -  
(see pickle) (see photo) ①



EL VALLE, FLOOR, 1500 FT. FLO. TAMBOA  
10/25/47

5182 - MORMODES - S. & P. TAN, AROUND REDDISH  
BROWN - WITH PARALLEL LINES OF BROWN  
SPOTS. LIP YELLOWISH BROWN, WITH A  
RECURVED BROWN TIP, AROUND BROWN.  
COLUMN PALE GREENISH YELLOW -  
(SEE PICKLE) (1)

CARRO CHAPANA - 3000 FT. CLOUD FOREST  
FLO. TAMBOA 10/25/47

5183 - MAXILLARIA (CAMARIDIUM) S. & P. BRIGHT  
YELLOW - LIP BRIGHT YELLOW, MARKED  
SCARLET UNDER THE PURE YELLOW  
COLUMN - (SEE PICKLE) (1)

5184 - COELIOPSIS HYACINTHOSMA - DESCRIPTION  
OF FLOWERS IN MANUSCRIPT TAKEN FROM  
THIS PLANT - (SEE PICKLE) (1)



Cerro Santa Rita, Choluteca Province - 1200 ft.

Fls. RAMBOA 10/18/47

5185- *pleurothallis* - ~~the~~ sepals MAROON, WHITE  
AT THE SOMEWHAT SAVATE BASE. INNER TIPS  
OF SEALS TAN. petals MAROON, WITH FINEBRIATE  
MARKING, WHITE AT THE BASE, lip MAROON,  
WITH WHITE TIP. (pickle only) ①

5186 - *DICHAEA* - S. & P. pale green lip purple -  
(see pickle) ①

5187. *Epipedium* FRANKS (see pickle) ②

5188. *ORCHID* - (*Scaphytophys*?) fls. striped lavender -  
common - (pickle only) ①

Rio Lirio, Honduras, very. Pura Blanca - fls.  
RAMBOA 6/18/47

5189 - Pickle only ①



El Valle - 1800 ft. Flo. AMBOS 8/24/47

Collected by MORTON ALLEN

5190 - *Trichocereus* (Pitche only) ①

Cerro Santa Rita, Cabañas Province  
1200 ft. Flo. AMBOS 10/22/47

5191 - *Maxillaria* - fls. white - probably same as  
that collected by FAIRHILL on MADOEN  
Lake - ①

Votz, PROGRESO - CHIQUIPÍ Province -  
1000 ft. Flo. coll. HARRY DUNN 10/26/47

5192 - *Cycnocheilus ventricosus* ①

Cerro Santa Rita, 1200 ft. Flo. coll.  
GRAHAM FAIRHILL 10/26/47

5193 - *Dichaea* - D. 4 ft. pale green - lip pale  
green - heavily marked purple - ①



Cerro Santa Rita - 1200 ft. 10/15/47

5194 - *Tridionidium* - (5)

5195 - *Scaphylophila* - fls. pale lavender - (1)

5196 - *Epip. nocturnum* - foliage coppery red - (1)

5197 - *Hexisea* - S.p. & lip scarlet - lip with basal fleshy yellow callus - (1)

5198 - *epiphytic orchid* (1)  
Fragmentary flower - produced from basal leaf axils

El Valle - Loma del Tizate - 3000 ft.  
Fld. Lambora 10/15/47

5199 - *Pleurothallis coarctata*? - (1)

Cerro Tute, Region West of Santa Fe, Veracruz  
Province, 3000 ft. Fld. Lambora 10/18/47

5200 - *Stanhopea jutta*, fls. only in pickle (1)

5201 - *Oncidium globuliferum* - sterile - (1)



10

1851



*fact*

